### te in new Gazette Bullding, 25 and 27 Marchant Street. Every Day.

# Miseellanerus.

### threwing thought makes growing credition Austria's Empress likes American por

No dear shillest, the francasjor is a the whole procession, but he totals he is, The next dangerous factory is the inferior MY of those who streams on

Keely meter stock, that ours will be \$141, can now be bought for \$2.50. Life is under an owlight things. Life itself its but a little thing; one breach less than

CORNER THE RESIDENCE A man whe is always well satisfied with himself is selding so with others, and others are as little piecesed with him.

If we would build on a ware Seculation to friendship, we must like our friends for the sales rather than the per own. Several of the French collimies but your

appear to be regarded with favor among the A Utile girl is coming home from a part

tald her mother she was so happy and matth? he any happier makes she was tozzer Best culture is becoming a great influence is sease. Profundly in also a fine art with the distribution of that state, and the two soll

work in together very airely. The new strumpers for the Capaci Line will a named "United" and "Electric," and will 20041 £3001000

to explaining what causes cold prospection. Any one was have goes up a fact after and stopped up a day would be wasting triumble

agers employed by Selling than to \$11 with epolit and complexency any other status or capacity in seems lefts.

trans where. - Out a piece of problem seed rub the wart with it. Continue this every night, being the noishing dry on it, and the WART WILL SOME CONSTRUCT

He does the thing that is in him to do by a figure for stronger than himself. The feet finite of a min's gentle and diverge part of

There was recently staying in Set Francisco a Professor Mary Erice, principal at the Desper School of Mires. Sin is believed to be the coly practical female resures in the

gs, though he may be wrong himself, you dones the way the others, and may whater

For lighting minus M. Magnin has produce the the of includencess diegra sings in-recess it water menanted it glass places. The early of each in apparatus has been a monacrated by placing it in the militie of

Martina, rose a Mari Son

10 yards wide to 182 long contains I now. 20 yards wide to 182 long contains I now. 239 feet wide by 176 long contains I seek

A St. Louis Judge says that the large who become criminals are the here who do not got whileped. The St. Louis Judge is wrong, says no exchange. The logs who do not got alones become sich and famous, Mr. J. L.

The litteet novelly is a dress album. gunnered on one safe of the lend, and the data attached. Thus this book forms a complete

story of a hely's contents from access

altiqued from America with conferrated Loverpool, the Casson House officials not being that so much militar was remed that that 90,000 bales in a single wook. Change matters. Here designed the country is in this receipt, contribut Non-Famor, as the stopped to the thousand and backed toward the many sen. I should like to they here always. "Well, I grown

The sounds to been, and turner Robinson, with a sty wind. Such turn Franciscos would be considered to be desired to the constant of the decime and longer yelling as the cover, and Most Floring searche limits to take flown has enough, so us to both pencip as possible by hesalclust time.

comprises 100,000 fineigness, from sec-quieter of the globe. It commiss more force Cartholics than Some desir, more force than 100 7,000 milles of streets: has 223 permi every day, and ships of schools. The Law yellowing peptidesies, the 137,000 Anthonial to the law peptidesies, the 137,000 Anthonial to have been separated, that 25,000 per schools and has 25,000 frankands attended to any The tobaccouse's obers had brought to the

senden finding, but the these must disk the remind one to get it. A genderman was stand-ing in the place assuming accounted by the fo-dies used the industractor and grathed into begins him into the store and was you great appropries and explain to the emited either who thought it was at attempt to before, in and even then be wasn't quite recountled they did not purt friends.

The island of Jone, with a terminal extent sheet the size of the Sam of History, has

thery eight volunties, and the north of these in a state of anisoty. Earthquakes are of frequent occurrence, and offset anomipment by the most charleng phenomena and mounts function. In 1862 the emphon of Non-Grinnington descripted life villages in 1,000 Even. In 1865 an emblycolor comthe fauth of ever a dimension people to one town. In 1972 and 1974 discontinues con-tinue account. The recent destruction is und to be the most destructive about 1911. Janu has a population of \$1,000,000, including about 25,871 Europeans, and 200,000 Cir-

The latest emiliates upon the religions of facility founded on the consus of 1582, where that out of the grand recad of the papelation of Salt Stelle, which is given at 254, 900, 514, the various sects and easies of filiation and up as less than 150,500,500. The Mahamme Christians, 1,602,635; June, a sect whose warstop is mingled Buildians and Histoines, MY 1886; the Silvie, who are simple Themes, \$50,000, and them, who came maint the heading of other excells, or worn allogather excells, for worn allogather excelled in an expension of the continue of th ever a bull tra winds. I ulesd, a strict stru-ting is stated to have havegle out the treat of er ball's million. But this number shows er had increased by 50 per cerr, and

# Bawaiian

HONOLULU, WEDNESDAY, OCTOBER 31, 1883.

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parties, and become Materials should and Principles area, formula passings if conti-tion. To see them any point inches the entire letter, Names Assess and the Labor, and the Ro Plant store, on tradition with fall it, he up

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agent made way WHEN RESIDENCE WERE THE PARTY THE PARTY.

PER VERNESA ON RENTAND

Dawanan Gazette,

RET MUDICE IN ARREST.

Most any hire their weak spots, and done the Protest being thought worthy went the Great and Good Gabson has the We all know how his political foresight when sending forth expeditions to the South Sons is search of "simple and ago."

Indeed the attempt to referre read people and descious a monarci espirations of Webb have grown with

Vezed at these problems; a series, and matrix to hurt Mr. Rhodes is any way, the Grand Viner proceeded to indice the

September 17th.

Anti-Dy commend of the King (I have the beater to mines, yet, that I file Harpony secrets your resignation to a member of the Board of Innaugustion, within treatment year resugnation of the position, within treatment to be, your obscinct secretal, Waters M. Greece.

Minimize of Foreign Affairs and Premier.

A few days latter feeling that his action, had been two precipitate and that he had no more right to discuss Mr. Checker.

All the Busins, he proceeded to get his tool Guirel to write and officially discussible Inspector. That letter ran as follows:

Desament of Leasure. Squarker 200, 1881.

struck higher than he had yet attempted. hicking the King's trother in law out of his official position. But how do Messer, Gibson and Gulick as in he ware no no hole distinctly som as the set in the most and the writing of several most abstract actions actionary, these helpes will be abstract better agreement Mr. Complete, they are installed in the Marine Brown at any pro-

re-instate him in his position dating his re-appointment luck to October let. Mr. g = Gibson in his spite at Mr. Cleghorn's resignation. Glemosed him, and now he is ready to lick the hand that he kicked and comes crysing forward with the old appointment. (In pariful! even in his hate in measurement, and, as it this case, over measurement in La Mr. Clephone likely to be the worse friendly to be a size it. continuousled to take a single feet for the fact the takes friendly to him after this one Pall, coups by special happin. When two exhibitions of spite I we can imagine it stills the regular take as per the stays actuable. Surelly possible. What end has been must the hours of M extent r m and a Nume. The position of Mesons Gilbert

reasons of state policy which led Mr Gib son to re-instate Mr Clephorn, after having fairly kirked him out.

Larrans from the East say that the five of the tricks to which this drop is it the tricks to which this drop is the Dropty proposed to do great things and the country. We think the story is the country. We think the story is the country, but the Chinese ing the well in heart, and their efforts will be a new of the Chinese are sty and my of the Treaty propose to do great things stry to the water. Their forces appear to be well in hand, and their efforts wil are the advantage of being concentrated. Mr. Searle has now clearly shown his on. One advantage we have is, that by urly as he has done, those who are in harps of our fortupes in Washington can

trace up and meet them.

Though the Treasury Commission Re-certabsolved us of the charge of frames it carryeded just enough of doubts about the lies which have been urged against us. The tables at the end are made up to show well under the Treaty, and that the tradewith Europe had been benefitted quite as much as that with the United States. In

where now stand such cities as New York, Washington, Boston, and Innabride of

on if a Minister, himself a stranger

set clearly where the had bargain is the mined States extress in. Table F is our record to show that trade impacts from the land States had only increased 9 per only increased show that trade impacts from the period states had only increased 9 per only in France, and that the trade of the same of the same of the period on a special on a special on the same of the

much as that with the United States. In table B the irrorite value and price yet in the promise of the irrorite value and price yet in the promise of the irrorite value and price yet in the promise of the irrorite value and price yet in the promise of the promise of the promise in the promise of the promise in the promi

WEINESDAT, OCTOBER M. ISS.

The pure personal spine whichered to wards one meanible of the firm of Grasses, the climits share from the wards one meanible of the firm of Grasses, the purely, it has been from the commenced on the firm of Grasses, the prompty, it has been from the commenced on the theory of the commence of the firm of Grasses, the prompty, it has been from the commence of the firm of Grasses, and the same that they are many three times as much Montace was the present process of the parameters of the Camera Affairs.

The number of the Grasses and in the Minister of Erichard States, and the Minister of Erichard of the palamination at regard affairs.

The number of charters granted of the Minister of Erichard States, and his master in the Minister of Erichard States, and his master in the Minister of Erichard States, and his master in the Camera Commence of the Minister of Erichard States, and his master in the Camera Commence of the Minister of Erichard States, and his master in the Camera Commence of the C

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schedulery airs of our laborate, it would re-boilty. Diming Oak Chairs \$1.75 to \$2.50. beef windows, and the preference would undoubleful remain in favor of Hawaii I. The first across secure of the sensor occurred three days ago sight to our little come, who had never before sensor the white flakes falling from the sky, under a white flakes falling from the sky, under an white with feelings semonwhat aken to become been of the limit flavor of the flavor of t

TERRES EUUU

Organs from 540 to \$250. Guitars from \$1 to \$100. Accordings from \$2 to \$20. Violins from \$5 to \$50. Flutes from \$2 to \$26. s in Conditioning that is all respectively to the treaty of the opposition to the treaty of the opposition to the treaty one are bibleronium over correct in New Orleans. Clarionetts from \$8 to \$50.

Letter From Z S Spalding

Curr Ucusal New York Letter—The Political College of Continon, Treaty Talks New York, Con. 25, 1895.

The city of Minnespolis is well laid out, with handware probability in the city of Continon, and there are a recently promised to the New York, Con. 25, 1895.

The city of Minnespolis is well laid out, with handware value of the New York, Con. 25, 1895.

The city of Minnespolis is well laid out, with handware value of the New York, Con. 25, 1895.

The city of Minnespolis is well laid out, with particular to the New York, Con. 25, 1895.

The city of Minnespolis is well laid out, with particular to the New York, Con. 25, 1895.

The city of Minnespolis is well laid out, with particular to the Continon of the Section of the Continon of the Continon

cered lookystas or the vaportum of a few bounds on coverences or the equium of the Northern Thorness over the root in Portland, has given the people of this section in Portland, has given the people of this section in opportunity to become sequential with the Public const, and to first that we are not as actively sequential as in days of the Judging from a conversation with the able settler of the Kisson a conversation with the suble settler of the Kisson according to the first of the settler of the Kisson of the Judging from the settler of the Kisson of the United States at home. Already there is not to the first of the China since from "Portland to China and Japan, and Australia and the Sambush Islands." And we may expect numerous visites: "via the Northern Parties." On the cuts, coming from Omaha, I must Bishop.

Special Buliers.

A SCHEELEN THE PART NO.

V.R METT'S TOTAL SE

N. M. WELLEY, and I was be-FURNISHED ROOMS-NOW OF THE P.

transitive termines the (damid, but as yet have not looked a ment of morthless instance. Sure and to one appeared to the policy of this Government as millestend by the treaty of recuprostry with they will. The report of the super commissions means to in a fair and treatfield as possible, and commissions the super many termines the arguments brought against the

Hen Idrertisements.

ED. LYCAN. W. R. BUCHANAN,

M. HAGAN.

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LIST OF GOODS:

Tambourines from \$2 to \$100 Concertinas from \$2.50 to \$20. Music Baks from \$5 to 25. Harmonicas from 25 cents to 88. Guitar, Violia and Sanjo Strings from cents to \$1 each.

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Violin, Banja and Cello Bridges. Repairs for all kinds Musical Instruments Furniture in Parlor Sets,

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High Chairs from \$1.50 to \$3.

Grecian Chairs from \$1.50 to \$3.

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Letters, or packages, may be registered to any part of this Kingdom, in parasist of a fee of Ten Cents, in addition to the register postage; and to any country to the Postal Units, or payment of Fifteen Cents, in addition to the sertinary postage.

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Record Sansa, Donary Close, Mortgages's Notice of Forvelours and Bale. IN ACCOUDANCE WITH A POW-

Boques Tables, and Smoker's Tables from Mortgagee's Retice of Fareclocure & of Sale N ACCORDANCE WITH A POW

Mortgagee's Notice of Foreclassre and af N ACCORDANCE WITH A POW

Administrator's Notice. TE UNDERSIGNED HAVING



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Superceiling all salier Steam Less Liulite to Explode Easier of Trans. AND COSTS NO MORE

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Wallaka Matters

ISLAND LOCALS.

ABOUT TOWN.

The Athlete Critivital is well on

The regular meetings of the Housinia Stocked Exchange will be wafter be held on We have all a.m. overmoneing from to-day.

ate of free band and mechanical drawing

Buttle of Base Ballery.

woman at a fool, and Lanus sent a sky scrope into Whitney's bands. A goose egg for Speechel-ells. Genre-even.

THE REST OF THE OLDER.

Post Now Out L'E mide by F. Out of the Ho-

of Cases Tried

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zel.

ministratur- vo. Kultona; replexin; apstermeditry Court; verlict for plaintid
sy for plaintid, J. L. Exalution for de

for defendant, of the Board of Edu-

Wang Ka Man et al. trapass; ap-matiery Court; vaniet for plain-s. C. Brown and J. M. Monastrati appellunts; S. B. Dole, for plain-

th Chemr, trespans appeal burn, verdlet for plaintif \$30; i denied. J. L. Radickov, for E. Preston, for defendant. colors, Minister of the Inte-

or Princeville Plantellon Co. closed for the Secu. A. S. tall, respondent; F. M. Hatch

LATEST FOREIGN NEWS.

one death.

The remains of Dr. Charles E. Homoschal of Sew York were cremaind One. 18th, at the La Moyte farmer at Washington, Pa.

Ceterage has surrendered to the British residents and will be conveyed to Natal. Roser, Oct. 15. - Alogue, near fire-out-streed. One thousand presons are by Beauty, Oct. 17,-Von Moltke is will

An Early Morning Blaz

phone.
During a period of 62 days, force Ser. 1 to Jon., there will be steven department of steamship size of which will be for him Francisco on a creating one every seven throughfuring fraight cap seity for 15,000 tons of produce, if obtainable.

Tribute to Chief Justice Jond.

herated libra suit benergia agreement that copies it is rather a jobs their we should have the little send-excitined kingdom of Harmin a more sensible railing from the Unit that on the matter of libra it than on the state of their than on the state of which they are to be a state of their than on the state of their than the same of whom the Hawainer paintables manufed was a deputy shariff but it was a sublic sens, but his private life only as being proper as to be distinctly simulated to a bolding his office. A government officer much right to the protection of the tax

Make a Note of This.

The presence of a reporter amount those what we nesting in an unlessful assumer is offered again by the participants as as futracies of a remarks are squeetines made by the cutter of that his presents to most stated. See uple about remember that a reporter is nested.

Ben Advertisements.

Situation Wanted, IN A YOUNG GERMAN, WILLING TO

Notice to the Public.

THE SENDING OF COIN OUT DOLLING. NOTICE !

8500 REWARD ! THE ABOVE REWARD WILL BE PAID

Administrator's Notice. THE UNDERSIGNED HAVING Administrator Example of Williams Hodge, does

Tax Collector's Notice. PAX PAYERS IN THIS DISTRICT

On Thursday, November 1st, 1883. conformity with Section 28 of the new Tar Lo. 15th Day of December, 1883,

Skidegate Oil. In Tins of 5 Callons. 12 TINN IN A CASE

The Best LUBRICATING OIL NOW PROPERTIED BY MOST

Sugar Mills and Island Steamers. SE POR SALE BY H. Hackfeld & Co. SPECIALNOTICE EASTERN MADE

Oak Ox Carts! Use the Pacific

WE WOULD CALL THE ATTEN-SIX EASTERN MADE OAK OX CARTS DURABLE, GLOSSY AND ECONOMICAL C. BREWER & CO. Time Table

Pacific Steamship Comp'y. FOR SAN PHANCISCO FOR AUCKLAND & STREET

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Saturday Evening, Nov. 3d,

GRAND CONCERT

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PROGRAMME-PART FIRST:

BOSOLLE SYMPHOLY CLER MR. MCCARTNEY. MISS C CASTLE & PROF TARNDLEY Very Sale - The Minneys" .... With URL ZAN MR H A REAFT.

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ROSOLULY SYMPHOSY CLER. Man, PART SECOND MIND M HOPPER Other David-"Absorranch and Refresher Lau DESCRIPT STREETHILLY & TWO NORTHER.

TiCR-LIS-15 Cents, with 25 Cents extra for reserved seats, to be had at Robertson's Gellery, 50 Cents. NOTICE !

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Alter, to III needs, by reddy of F.T Linnston of Cases Chinese Wins, Cases Superior Caret, IN BOND

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REGULAR O THURSDAY, --- NOV. 1st state, in at halo them, will be not accoming

CLOSING QU Clothing, Dry Goods, Furniture, Tebucco and Cigara.

A Line of Fresh Groceries. And Line Fran

Also, Two Fire Proof Iron Safra-Valuable Real Estate

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Valuable REAL STATES - 435-Household FURNITURE THE MALE RESTRICTION.

Entire Household Furniture

VALUABLE

Ox Carts, Case Carts Pulehunui, Kula, Maui

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One Can Apply It. Rubber Faint One Triples

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All that Certain Piece of Land and Large

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ON THURSDAY, - - - NOV. 8th. G. WEST, Pr Deplers in sill)

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Clariflers, Flat One Space Statements S Strong of St i. W. Hactrouse

100 BARI COLUMBIA BI

Red Saln IN TIME ORD CY: FOR SALE BY E. P. AD.

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AWARDED FIRST-CLASS COLD MEDAL. The Only Gold Medal: also, Two Special and FINE SILKS. Four First Prizes for Watches.

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Containing Plates, Cups, Tempota, Bowls, Chambers, Rice Disbes and Bakers, Demijohns, 5 and 5 gells; Sample Isotiles, Vasos and Glustewar, Matilia and Tarried Rope, Hemp and I. H. Picking, Coal Buskets. Sugar & Rice Bags

Of all stney and qualities, Conf Fings, Gunnies, Twine, Burlaps Woolpnek and Twilled Saching, Linen Hose

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German and Havana Cigars Plated Ware-Spoons, Forks, Crasts, Ten Sets,

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ALL THE USUAL STOCK SIZES

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A FINE ASSORTMENT OF WALL PAPER LATEST STYLES.

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Scantling; Plank, surface and rough Boards, surfaced and rough; Butters, Pickets, Rustic, Lattice, Clapboard.

ALSO, IN STOCK. Pant and Whitewash Brushes. WHITE LEAD WHITE ZINCE.

METALLIC AND OTHER PAINTS Glass

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ALL SIZES. Of Eastern and Galifornia Make. FOR SALE IN QUANTITIES TO SEPT

LOW PRICES BOLOGNA SAUSAGE IN TIN CS

Peck's Bad Bay "What is this I bear about your father cre-ing a panic in a dry goods store," said the recery man to the lad boy, as he took a bat-c tryer and rat it into a pumpkin a few troom. They tell me that he had about a bundred male clerks treed on the shelves, and on the counters, and all of them accounting bloody murder, and that a floor, walker his him over

tem of the whole basiness, and when a man-loses confidence in his boy, and rolls up a trunk-strap and carries it habitually, it exacts a boy in hand to keep his eye peolod. a boy in based to keep his eye peeled.

You see, pa has been in the habit lately of poing to the store a good deal a lallygagging with the girl clerks. Any girl that will smile m pa and look sweet catches him, and he would sit or a stool in front of the counter transcense a day, pretending to want to buy some look of the counter transcense of the counter transcense. kind of fringe or corsets or something, and he would fairly talk the arms off the girls. Ma don't like it at all, and she told pa be ought to be ashamed of himself, 'cause the girls were only making a feel of him, and all the people in the store were laffing at him, but pa said for her to short up her yawp, and he kept on trying to find excuses to go to the store. Ma told me about it, and she felt real sorry, and, by jinks, it made me mud to see an old man, old enough to have gout or paralysis, going that sort of business, and she told me to go aboud and make him jump like a box car. So t'other day ma gave pa a piece of ribbox. to match and a forest to change of a target alon, and a pair of gloves to roturn became the thumb of one of 'on was rapped off, and told him to buy four yards of haby flamed, and see how much it would cost to have ber scalaking rifics of the newest pottern are turned out clock relined, and to see if her new hat was done. Pa neted as though he didn't want to duced in 1870, twenty 10 pounder Armstron gum, which on being tested by European or given's were declared to be equal to anythin o to the store, but ma and me know that h go to the storm, but ma and me knew that he hocked upon it as a picnic, and he blacked his boots and changed ends with his cuffs, and per on his new red mockite, and shaved himself, and fixed up as though he was going to be married. I asked him to lot me go along and carry the packages, and he said he disin't mind it! did no. that had ever left Elewick or Woodwick. The approaches to the more important scaports at

wanted, and then she saw the rat, and screamed and crawled up on the shelf w the buzes were, and put her less under and sold 'take it away, kill R.' and she trem bled all over. Pa thought she had gone int a fit 'cause she was puralysed un his shape and he terred blue, and went on, 'cause h didn't want to kill her flead; and as he walke along the rat followed him, and just as bowed to four girls who were standing to gether talking about the fun they had at it. Exposition the night before, they saw the rat and they began to yell, and chind up things One of them got us a steel and pulled clothes tight around her ancles, so a live couldn't have got in her stocking, let alon

Pa he looked scared, as though he was afraid the rat, and they jumped up on the counter and sat down on their foot, and yelled "rat." Then the others yelled "rat," and in a minute Similines, in half and quarter boxes.

H. and P. Hissenits, Sade in jars.

Castro Col in Time, Steamne Candles, 5, 5 and 5, Matches, Occomm Oil, Wash Blue, Habbook's Linneed Paint Oil, H White Lend, White Zine Paint.

Matches Paint Oil, H White Lend, Oil a pile of blankets and the pile fell off or the floor with her, and the men had to dig he cot. Pa's face was a study. He locked a the collar and led him out doors, and told him if he ever came in there again he would send inks I better board around for a day or She tried to reason with pa that it was done for his good, to show him that he was making

a fool of himself, but he does not look at it is that light."—Peck's Sus Studebaker Bros. Wagons The Naval and Military Power of China THE NAVE OILS a Specialty. The Chinese navy, which dates buck to a period before the foundation of the British pavy, is no longer (says a New York contempavy, is no longer (says a New Tork concen-portary) a may of war junks with high tail-warks and pentagonal portholes, and with gun-mounted on immovable carriages. Chinese naval architecture is now mot unlike that of Powers of advanced civilization. Millions have en spent in the construction of war steamers modern type, and in the establishment of ckyards and arsenals, in which munitiess American and English Paints and Oils owyards and atsenais, in which hadden ourteen years ago M. Miguel, an efficie of the vench navy, began building a dockyard of the river Min, a few miles below the treaty out of Foochow, and which can be easily for-VALENTINES' AND OTHER VARNISHES. tified. At the end of seven years from work rolling mills, engine factories and buildi slips—in fact, all the plant of a naval yard were in full working order, in which time tengines, and in some cases the armament, i HARKNESS FIRE EXTINGUISHERS no less than fifteen vessels were built. Ther was also a school for naval officers formed also a training ship was attached to the estab hment. In 1876 a navy yard was established or Shanghai, and, though there are a few aglishmen and Americans holding posts in it be control of it is exclusively in the hands of be Chinese. The Chinese, however, do no rely on their own dockyards and constructor tion, they have recently had construcprediction, they have recently had constructed in England a series of gunbeats of the latest types, armed with the most improved and heaviest guns. In 1878 Sir William Armstrong built for the Chinese Government four gunboats—the Alpho, Behr, Grammo and Bohn. The first two are 118 feet in length, 27 feet beam 7½ feet draught, 319 tons burden, and each carrying a 26½ ton gun. The two latter are 120 feet in length, 30 feet beam, 8 feet draught, 400 tons burden, and each carrying a 38 ton gun of British pattern. They are built 38 ton gun of British pattern. They are b of iron, and carry 50 tons of coal and 50 rou ammunition. Four other gunboats were b on the Type and were delivered to the Chin Government in 1876, each being armed to a 35 ton gan of the Armstrong type. Ti stantially the same design as above. The most important ence is that they are built of steel instead frop, and are double ended (that is, their ste and how lines are of the same model and fitt with rudders on each end,) to make them steam forward or backward with almost equ facility. They were originally named the Epision, Zeia, Eta and Them, but were affer ards renamed to something more Chinese be Chin Pei, Chin Nun, Fel Ting and La

AT THE BEX40 INCHES.

Plate Glass 9X12 FEET AND 12X12 FEET. The Above is Offered at Beasonable Rates

- AND OTHER -Fertilizers in Quantities to Suit. THEO. H. DAVIES & Co.,

ATHLETIC ASSOCIATION! THE GYMNASIUM OF THE HO General Merchandise.

"Pioneer" Line



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This PLOW is made specially for SIGAR PLAN TATIONS and is covered by PATENT in the Hawalian Linedon.

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Hardware for Plantation Use

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the low and stern respectively. They are 213 feet in length and 32 feet breadth of beam. The Chinese also have several steel torpedo houts rigged for the Waitehand and spor terpedoes, 90 feet long and 18 feet beam. The Fisce of Issie calls attention to the regardle strade which thinks has made in the development of her practically unlimited wallike recourses. She is supposed to have a standing army of 1,000,000 men, but the des-

petic valer of 300,000,000 people need never lack for soldiers. There is no such thing as a Ulinese army in the some in which we speak of an English or a Prussian army. Fack province finds its its own army complete in itself, the head with a roll of paper cambric, and somebody turned on a fire slatm. How was where finds its its own army complete in steel the Governor acting as generalisating, on whom the efficiency of the force depends. Hence white there are some provincial armies which constitute a more rabble armed with seven-"Well, if you will keep watch for pa at the leer, I will tell you all about it," said the boy, "Somebody has told pa that I was at the betrecently conjury weapons, there are others which have attained a a high state of efficiency, at are arrived with the best of modern rifles. Thes Li Sung Tang, Governor of the province of Pacht-li, has under him a force of 70,000 very efficient treeps, armed with the Reming of the Kang-su army with the great mill eformer, Tee Tean Tung. The weak poi he Chinese military system is the officers, tials do not imitate the radical reforms it gurated by their neighbors in Japan, it s not be supposed that they ing very far leb Of late they have despatched numbers of your men to Eurland and Germany to learn the at of war by land and by sea. (hims is well an of war by land and by sea. Come is well applied with ordinance of the best European mansfacture, Krupp having already supplied her
with 150 siege guns and 270 field pieces, and
with gens in position the Chinese can fight
well, as we discovered to our cost at the month
of the Pri-ley. A number of surboard towns,
such to Transferin, Shanghat, Nankir, Canton, A Splendid Asst. of Shirts, etr., contain arsenals where goes, both lig-and bravy, are cast, and where breech loads

if I did go.
You have seen these injy rubber rate they mave at the rubber stores, haven't you. They look so near like a natural rat that you can't tell the difference unless you offer the rubber rat some cheese. I got one of those rate and tied a fine thread to it, with a slippnose on the end, and when pa got into the short I put the slippnose over the kind button of his contrall, and put the rat in the floor, and it followed him along, and I swow it looked so natural I wanted to kick it. Pa walked along smiling, and stopped at the ribbon counter, and wanked at a girl, and she bent over to see what he wanted, and then she saw the rat, and she

ubber rat, and all the girls squeated just like then you tickle them in the ribs. one girl, and another, and wondered what was the matter, and finally the foor-walker came along and see what it was, and he took to by the police after him. I had gone by the time pa got out on the sidewalk, and he picked up the rubber rat and found it was hinched to his coat, and he went right home. Ma says that he was so mad that he stattered, and she

House Furnishing Goods LAMPS, CHANDELIERS, LANTERNS. NEW GOODS! AND We aim to keep EVERYTHING Required in Sell at Lowest Possible Figures. Long. Their principal dimensions are: 12 feet in length, 29 feet breadth of beam, 12 feet draught of wate 110 tons burden, and with an effective spec f 19 knots aff hour. Each has two pairs of 10 knots and hour. Each mas two pairs of compound engines, and is propelled by twi screws. Their hulls are divided by four trans-verse bulkheads, and by longitudinal centra-bulkheads forward of the engines, thus giving them note distinct watertight compartments. The engines, boilers, and magazines are unde-the water line, and are further protected fros-the shot and shell of the enumyby a horizonth under water deek over them. The 35 tem cuinder water deck over them. The 35 ton gu a pivoted forward. Besides this heavy gur each has two 12 pounder breech loading gun stern, and two 10 harrelled Gatling gun 5 calibre, to be fired from various position

by cannor, to be men from The cost of these broadside or raking astern. The cost of these was \$170,100 cach, or \$381 a too, machinery, rigging and all complete. (The United States streamer Korn, of \$10 tons, cost \$841,828, or \$1,565 a ton, the Nyoe, of the same sire, \$230,-612, or \$558 a ton, the Enterprise, 615 tons, and \$250, 150 s. \$211 a ton and the Essential States and States an cost \$499,152, or \$811 a ton; and the Essex, 615 tons, cost \$477,411, or \$700 a ton.)
These Chinese gunboats are primarily intended for coast defence, but will no doabt give a great deal of trouble to the French war rensels should they attempt to invade the sand ty of the Celestial waters. The Chinese also have eight small iron gur

The Chinese also have eight small from gun-boats of from 100 to 200 tone each, and each carrying from two to seven breech loading gans. At the Foochow arsenal have been built 17 composite (wood and from) wasels, each mounting one seven ton or one nine ton gun, with other light gans; also one composite cor-vette carrying 11 gans—one of 11 tons weight also three steam transports. The Chinese have also built at Shanghai two wooden frience lso built at Shanghai, two wooden frig nd five iron gun vervels. The Chinese l and five iron gen vervels. The Chieses have also had constructed a supply of forpedo boats, each 52 feet in length, 7 feet breadth of beam, 5½ feet draught of water, and with a speed of 16 knots an hour. They are built of steel, in watertight compartments, and arranged to work three spar turpedoes. Two years ago the Chinese Government had built two steel twin screw craisers of 1,550 toos burden each, drawing 15 feet of water and with a speed of 16 knots an hour. Each vessel is provided with four broadside 10 pounder rifes, and two life inch breech leading pive rifles, planed at 151 ff.

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ISLAND VIEWS

HONOLULU, October 15, 1883.

To the President and Shareholders of Panters' Labor and Supply Company esponsibility which rests on its shoulders. The subject is of such great importance, and covers sa vast a field that the more we study it, the more to we realize how much investigation and reflection it requires. The process of anniacturing sugar from cane consists of three distinct

Extraction of the sugar or juice from the cane.
 The defectation or clarification of the juice or sugar liquor.
 The crystalization and separation of the sugar from the juice or

Let us turn our attention to the initial operation, and consider the methods of extraction in use, or practicable. The universal custom on these Islands, with one exception, is to extract

the juice by three-roller mills. The one exception is the Hawaiian Commercial Company which has, on Mani, adopted a system of double crushing, and passes through a three-roller, and then through a two-roller mill. The latter mill has a hydraulic attachment on the upper roller which gives a continuously

uniform pressure. Are we safisfied with the results obtained from our three-roller mills ? If we observe the number of improved processes of extraction which have been tried or suggested from time to time in other countries, we may reasonably conclude that sugar manufacturers in other parts of the juice extracted by the three-roller mills of this country; out it is pretty

certain that very few of them extract as much as 70 per cent. of juice, while it is well known that average cane contains 90 to 95 per cent, of The uninitiated would suppose that this must be an extraordinarily lucrative business that can afford to be indifferent of a loss of 25 per cent. of raw material that has cost in cultivation so much money, labor, anxiety

nd skill to induce the soil to produce. Our usual excuse for this apparent waste is, that coals are expensive and we must have good trash or megass to produce the steam necessary to drive our machinery, and evaporate the water of the Juice,

Are we not apt to forget that with our trash we burn ions of sugar which, if manufactured, would fetch \$156 per ton, while coals can be bought even in Honolulu for \$10 per ton.

Perhaps a brief review of some of the most noteworthy processes of extracting sugar from cane will not be out of place here.

The three-roller mill is too well known here to require more than a

passing notice. Suffice it to say that it usually extracts from 50 to 70 per cent, of juice, and that the larger the mill, and slower it is run the better, as a rule, are the results. Nevertheless, it is a matter of the greatest importance that the feeding of all mills, large or small, should be properly ended to. Many small mills, well fed, do better work than the largest where the feed is thin or irregular.

The Sugar Cane Journal for September contains an interesting notice of stewart's hydraulic attachment for three-roller mills. This can, we understand, be applied to any ordinary mill, and has the advantage of main taining a perfectly uniform pressure, no matter how irregular the feed. The result is an uniformly increased extraction of julee.

Multiple roller mills, some with as many as nine rollers, have been adopted in various parts of the world, generally with the result of an increased yield of juice. The great cost, however, and the additional we shall never obtain equally good results in our industry. power required to keep such large and heavy masses of iron in motion, prevents their general adoption.

An ingenious mill known as the "De Mornay" is being manufactured by Fancett, Preston & Co. In it two comparatively small rollers are sublituted for the front lower relier of the ordinary three-roller mill. These two small rollers work directly under the top roller. It is said to require less power to run, and to give better results than the ordinary mill. A light finted drum, or breaking roller, has been applied successfully to

break the rind of the case before it enters the mill proper. Faure's defibrator has attracted a good deal of attention, and is said to have given 78 to 82 per cent, of juice when applied in conjunction with mary three-roller mills. The defibrator consists of a toothed drain which, with the assistance of two-toothed plates, reduces canes to fibre which then passes evenly through the mill. This can be attached to any

Bessemer, the well-known inventor of the process of manufacturing steel, which is called after him, patented a system of extracting juic from cane by crushing it with plungers working in horizontal cylin This process has not yet been appiled successfully. About two years ago the rewspapers contained glowing accounts of M. Bonnefin's washing By this system cames are entirely disintegrated by a series of revolving saws, and may afterwards be reduced to pulp, from which the uice is easily extracted. We regret that we have been quite unable to obtain any information as to trial of, or results obtained, by this invention maceration process has been tried in many ways, and has been sub-

ected to considerable discussion. Maceration may be applied in its simplest form by moistening the megass with steam or warm water after it leaves the ordinary mill, and the re-crushing it. In this way a good deal more sugar and juice is extracted. There are many advocates of this system, but reports as to its success are very various and conflicting. One of the newest processes is that named the Ekman, after a German centleman who invented it. It consists in cutting the case into small

dlees, which are boiled under pressure with certain chemicals. Till we know more about the process, what the chemicals are, and what their lin the event of yourself, or your Planters' Association, desiring to obaction upon the cane is, it would be rash to offer an opinion as to the probability of it succeeding or not. As however, the megass is entirely here in the colonies whose particular business it is to make the destroyed as fuel, it is difficult to see in what respect such a process can be superior to diffusion, which is the last process to which we propose to while to make him an offer to visit your Islands. We may, however, aw your attention.

respect, that the sugar is obtained so far as possible without rupturing the juice-cells of the cane, or even extracting the rice. Though this process has been known for over forty years, it has as yet been but little tried in of the process during the ensuing years. You will oblige us by informing marked as might have been expected. Nevertheless, it is based on such the probable expense. We should prefer, however, your sending some sound principles, and has attained such unparalleled success in application one here with full authority to purchase from us the patent rights for the to the best root sugar industry, that it deserves more than a passing notice.

There are, in fact, strong grounds for believing that eventually it will supersude all other methods of extracting sugar from cane. This process and you will see that we have made the conditions as favorable for the chemist, of the possibility of separating crystalloid and colloid substances from each other when in solution by the method which he named dial-Crystallolds are such substances as sugar, salt, etc., which are capable of crystallization. Colloids are glue-like gummy substances, which will not crystallize. Graham discovered that crystalloids in solution could pass through water-tight membranes, such as bladder, parchment, or plant-cells, into water on the other side of the membrane. If a slice of sugar cane or best roof is immersed in water, the sugar in the cells will mann and Clare Bernard all of Port Louis in the Colony of Mauriting pass through the cells into the water, but the gummy and albuminous Chemists on the one part and

natter contained in the juice remains in the cells. Dabrunfant, a distinguished French chemist, to whose ability the beet of the other part. Whereas the said Paul Laurent Edmond Icery, Leon root sugar industry is indebted for many valuable inventions, was the Ehrmann and Clare Bernard are the holders under Grant from the Crown first to suggest the application of this discovery to the extraction of sugar of Letters of Registration for a Patent having for its object the Purifica-

only fifty-two had adopted the diffusion process. In 1880 there were 328 to grant him a licence to use the said invention to the intent and subject factories, and only thirty-seven had not adopted diffusion. In 1883 every to the restrictions covenants and agreements and upon the terms beginning beet sugar factory in Germany uses the diffusion process. In fact it is after expressed and contained. Now this agreement witnesseth that in found that, with the present low prices of sugar, no beet sugar factory can be made to pay without the diffusion process. With it, however, some of sums here after reserved or made payable to the said Paul Laurent the most successful companies are paying 50 per cent. dividends. The process has been proved quite as applicable to sugar cane as to bestroot; but, as at first with the latter industry, it gains ground very slowly. The application of the principle is now, however, so much better understood and Clare Bernard (bereimster designated "Patentees" which expression and Clare Bernard (bereimster designated "Patentees" which expression an formerly that it ought to succeed much more easily than could have shall be deemed to include their executors administrators and assignbeen expected forty years ago. The application of minute quantities of recently-invented antiseptics serves to prevent fermentation, which was formerly a great difficulty to overcome.

so that there need be no more evaporation to make a ton of sugar than from expressed cane-juice. The megass, however, has been in the past entirely lost as fuel, but the extra quantity of sugar obtained should far of all sugar manufactured according to the said invention when and as more than compensate for the extra expenditure of fact. The exhausted the said licensee shall think fit for his absolute use and benefit. And it cane-slices form a most valuable manure, and it may be that, if partially is hereby mutually covenanted and agreed by and between the said resdried, they might be used as fuel in the Jarvis furnace. Diffusion liquor is perfectly clear, and requires no skimming; it may be boiled without further clarification. The sugar is extracted from the cane with hardly

Department, has been experimenting on the application of the diffusion process, to sorghum. His experiments have been quite successful on a small scale, and the principle is about to be applied on a large scale. For further information on this process, we would commend the attention of those interested to a paper on the subject, read by Mr. Koelling before the in the mill sugar room and compared with the waybill receipt book of meeting of this company on the 15th instant. Mr. Koelling has had experience in working the process both in Germany and the United States, and is intimately acquainted with all its details.

terest. Letters were written to Messrs. Icery. Bernard, and Sherman, of Sax shillings sterling with ten per cent. added or say six shillings and seven pence farthing per ton for every ton of sugar so manufactured sydney, asking for information about the new magnesia process, patented by the first three gentlemen. Details of the process could not be furnished. art we append to this report Messrs. Montefiore, Joseph & Co.'s letters, with memorandums of terms on which the process might be used. A sample facles provided for its conveyance to market at which period it shall als of sugar made by this process is submitted for inspection. Such sugar as be weighed. his sample would be too light in color for the United States market under the existing treaty; but if, by the use of the process, a larger yield of sugar can be obtained without such high color, it might be worth trying and particulars of all sugar manufactured or made by him under this fence it for him, farnish him with seed, he doing the mere cultivation of

Dr. Scheibler, the well-known chemist to the German Beet root Sugar Manufacturers' Association, has recently invented a process for extracting sugar from molasses by the use of strontia. Mr. Koelling is informed that a large factory has been erected at Hildeshein, in Germany, solely for extracting sugar from molasses under this patent. We believe it of the licensee and shall at any time, if required, be produced for the would be in the interest or planters here that further particulars should be inspection of the patentees or their duly appointed agent or attorney, who obtained, and that if found likely to be advantageous, the patent right for shall be at liberty to make copies of or extracts from any accounts

lesters have been written on behalf of the committee to more than

Fourteen gentlemen, viz.: Mr. Koelling, of Hanalei; Mr. Dole, of Kapan; Mr. O. Isenberg, of Kekaha; Capt. Boss, of Heeia; Mr. Turton, of Lebaton; Mr. Ewart, of the Star Mill; Mr. Otto, of Pannhau; Mr. J. on, Hamakua Mill; Mr. Walsh, for Messrs. Alexander & Baldwin, of Pais; Mr. Unna, of Hana; Mr. Soper, of Ookala; Mr. Kay, Pacific agar Mill, Kukuihnele; Mr. Williams, Spreckelsville; and Mr. Baldwin, of Haiku, have kindly sent replies giving interesting facts and figures; and two other gentlemen have replied, regretting their inability to furnish the information requested. Had a larger number responded, some

There is so little difference in principle in the methods of the mill magers who have sent accounts of their ways of procedure, that there

The plan of liming adopted at Spreckelsville seems worthy of imitation where. By each stroke of the juice-pump, a certain quantity of limeter, or milk of lime, is injected into the juice, thus securing promp m liming. The quantity injected can be regulated as desired. ectice generally seems to consist of straining the juice as it leaves ing it into a clarifier where milk of lime is added when half full, mixing and heating when full to eracking point.

orne planters skim the clarifler, while others run off the

7.—That the licenses abali not at any time or times hereafter dispute

d leave the seum as it rises when boiled in open pairs for

the validity of the said patent.

REPORT OF THE COMMITTEE ON MANUFACTURE OF SUGAR. that purpose. It is next concentrated in open pans, or in double or triple GENCLEMEN, Your committee on sugar manufacture feels deeply the days to granulate. Second molasses is treated in the same way, but deem desirable and of which the said licensees shall give one clear days allowed ten to fifteen days to granulate.

The following are returns from eleven different mills:-

Ounces per Density, Percentage of . Uses Otto's mud press, and has a double effect. Granulates 1st molasses in vacuum pan.

Two gentlemen make a fourth grade of sugar by running the 3rd classes into large reservoirs where it is allowed to remain till the end of world are not. We have no statistics to inform us of the percentage of the crop. Two other mill owners contemplate doing so. Two gentlemen say they are in the habit of granulating their first molasses in the vacuum pan, and one sometimes does so. It is, however, noticeable that one of these gentlemen gets 29 per cent, of 2nd sugar but only 61 per cent, of 1st

Uses Otto's mul press, and has a double effect.

Two gertlemen mention that they allow the juice to settle for about

twenty minutes before cleaning it after it leaves the clarifiers. Six replies were given to the inquiry as to cost of manufacturing, from he delivery of the cane at the cane carrier, to the output of the sugar rom the sugar room. They were respectively \$25, \$18, \$16, 89 and 89. The highest included interest and all expenses on the mill between the

grinding seasons, which may have been omitted in the lower ones. Mr. L. J. Lionarous, a gentleman of extensive experience in sugar making in Demerara, Queensland, and other countries, in reply to a note equesting suggestions or comments on our practice here, suggests that se who have double or triple effects should take the juice direct from the clarifiers into the double or triple effect and concentrate it before clear ng. Mr. Lionarous informs us that by this plan fuel would be saved and better results obtained. We consider the suggestion a pertinent one and worth the attention of those who have double or triple effects. One gentleman that we know of, who has tried this plan on these islands, finds it to Mr. Lionarous also speaks strongly of the importance of juice seaters to heat the juice as it is pumped from the mill to the clarifiers.

The committee tenders its best thanks to all the above named gentle lemen who have been so good as to give accounts and statistics of their Before concluding this report we would again for the third time respecifully but strongly recommend that the Company should take edinte steps to obtain for the planters of these. Islands the services of a really scientific chemist. It is science that has brought the best root

In the course of this report we have had occasion to refer to several inent chemists who have each benefited the sugar industry by inventions of great value.

We deeply regret that one of these gentlemen, Dr. Icery, who has perhaps devoted more attention to the cane sugar industry than any other chemist, died last April. Our industry has lost an able and assiduous We conclude this report by laying before you an interesting and prac-

tical article on boiling house management by W. Koelling, from which some valuable hints may be obtained. Signed on behalf of the committee.

R. A. Macfie, Chairman

R. A. Macfie, Jr., Esq., Chairman of the Committee on Sugar Manufacture of the Hawaiian Planters' Labor and Supply Company, Kilauca Plantation, Kaual, Hawaiian Islands.

DEAR SIR:-In reply to your favor of the 16th of March, we beg to inrm you that we are the attorneys for Messrs, Icery, Bernard, & Ehrmann, and have full power to treat with any planters desirous of using their patent. By next mail from Mauritius, we hope to receive a full account showing the particulars of their process, when we will address you again. Arrangements will have to be made for payment of a Royalty, or, we should be prepared to treat with you for the sole right to use the patent in your Kingdom, leaving you to make whatever arrangements you please

We are, dear sir, yours faithfully, MONTEFIORE, JOSEPH.

SYDNEY, N. S. W., 4th June, 1883. R. A. Macfie, Jr., Esq., Kilanea Plantation, Kanai, Hawaiian Islands DEAR SIE,-Your favor of the 11th May is to hand, and we regret to say that we have not yet received the full technical details of the patent of Icery, Barnard & Ehrmann for manufacturing sugar.

process known, and your Association would no doubt find it worth state that the principal points of the patent consist in the use of sulphurie The diffusion process is the only one that extracts the whole of the acid gas, lime, and superphosphate of lime in combination, the result Sne dry white say We have not a sample application to sugar cane, and where tried the success has not been so us what steps are necessary to obtain patent rights in your Kingdom, and depends in principle on the discovery by Graham, an eminent English planters as possible, in order to induce the general adoption of the process.

We are, dear sir, yours faithfully, MONTEFIORE, JOSEPH. P.S.—We have found a small sample of the sugar made by L. B. & E. process, and enclose it. It has had a good deal of handling, and the crystals do not therefore look their best.

MEMORANDUM OF AGREEMENT made the 18 between the Honorable Paul Laurent Edmond Icery, Leon Ehr-

from beet roots. It was in Germany, however, that the process first came into general use. At first it was slow of adoption, but latterly it has converting it into sugar, and also for obtaining a large yield of sugar by a ne | tion of juice from the sugar cane and the syrups produced in the courseof gained ground with amazing rapidity.

In 1872 there were 311 beet rest sugar factories in Germany, of which

Ehrmann and Clare Bernard have agreed with the said

thereinafter designated "Licensee on liquor can be made the same density as the juice in the cane, his heirs administrators and permitted assigns license to use and exercise

pective parties hereto as follows namely,-1.—That on or before the first day in July of each year during the existence of this contract the licensee shall name to the patentees or their luly appointed agent or agents the several place or places factory or factoric Dr. Collier, the scientific chemist of the United States Agricultural estate or estates where he purposes making use of this patent during the ensuring twelve months and the licensee shall furnish the patentees or first week in every month succeeding any month in which he shall have manufactured any sugars under the process furnish to the patentees of Since the last annual meeting, your committee has made some effort to their agent a true account of all sugars so manufactured and prepared as offset, by correspondence, information which might be of value or in-

> 2.—That the licensee shall at all times during the continuation of this invention, manufacture and premises, shall be kept at the place of business ters therein contained.

3.—That the said patentees shall be at liberty at any time during the existence of the said licence to enter upon any factory or place of busines forty mill-owners or managers on the group, soliciting information and existence of the said license to enter upon any factory or place of business statistics about their methods generally, and more especially as to their treatment of melasses, yield of sugar per gallon of juice, percentage of the said licensee, in which the manufacture of sugar is being carried on, at any reasonable hour to inspect the same and the works thereof and all sugar manufactured or in course of manufacture in such factory or place. 4.—That the licensee shall not either directly or indirectly and either

by himself or any agent or agents use or exercise the said invention otherwise than in accordance with these presents, 5.—That the said patentees or their agent shall give to the licensee such reasonable assistance and information respecting the said invention and the mode of working and using the same and all processes connected therewith as may be necessary for enabling him to use and exercise the

said invention to the best advantage. 6.—That if it any fine or times during the continuation of this license the said patentees shall invent discover or make any improvement or improvements in the sald invention or the mode of working or using the ie or which may be applied to the said manufacture or shall become the owner of any such improvement or improvements (whether patented or not) then and in every such case they shall communicate such improvement or improvements to the licensee and give him full and sufficient information, instructions and assistance respecting the mode of working and using the same and so far as practicable reader the same available at the expense of the licensee for his benefit during the period aforesald and the licensee shall be entitled to use and exercise the same without paying any further or other royalty, premium or compensation to the putentees in

effects, boiled to grain in vacuum pans, and immediately dried in centrifugal machines. The molasses is usually "blown up," with the addition in some cases of more lime, skimmed, boiled at a temperature of 140 to the whole remaining term of the patent, subject however to such inter-150: Farenbeit, and run into coolers, where it is allowed three or four missions of working the patent as the licensees may from time to time

notice to the patentees or their attorney or agent resident at Seven of the gentlemen from whom replies were received, treat their failing which he (the said licensee) shall be deemed to have been working skimmings in Otto's mud-presses, and appear quite satisfied with the under the sald potent and shall pay royalty on sugars made during such results. One gentleman claims to save 20 to 30 gallons of Juice on every time as he shall have been working without giving the sald notice. larifler. Another says he saves equal to one clarifler in every twenty- Notice of resumption of operations under the patent must also be given one clear day before work is resumed. Provided always and it is hereby The yield of sugar per gallon of juice and the percentage of 1st, 2nd and declared that if the royalties or sums hereby made payable or any par thereof shall at any time be in arrear or unpaid for twenty-one days after the same shall have become due and after due demand in writing by the patentees or their agent, or if the licensee shall become bankrupt or enter into any arrangement or composition with his creditors or shall make default in performing or observing any of the covenants agreements or conditions herein contained and on his part to be performed or observed then and in any such case it shall be lawful for the said patents writing in notice given to the licensee or lett for him at his usual or last known place of abode or business to revoke this license which shall there upon become void without prejudice to any right of action or remedy of the patentees for the recovery of any moneys then due to them hereunder or in respect of any antecedent breach of any of the covenants or agreements of the licensees herein contained. Should patentees at any tim reduce the price of their right for using the said process or in any way make better terms with fresh constituents the Beensees under this agreement shall receive notice of same from patentees and be allowed from the date of such notice to participate in any advantages attached thereto.

9.—That as doubts may rise from time to time as to what sugar is to be

considered as manufactured under the said process the subject of this license and what is not it is hereby expressly set forth, determined and agreed that when the licensee shall see fit from deficiency of plant or any other reason to manufacture his second third or forth sugurs without retreating the molosses from which they are made by the process and shall o manufacture them then in such case the second third or fourth suga are not for the purpose of this license or of paying royalty to be considered as manufactured under shis license although the cane juice from which they were extracted was originally treated by this process and the first sugars made thereby subject to payment of the royalty reserved in this agreement. And the patentees do hereby for themselves their heirs executors and administrators covenant with the licensee that notwith standing anything by the patentees done omitted or knowingly suffered the said letters patent are now valid and subsisting and that the patentees ow have power to grant a licence to use the said letters patent during

the term and in number aforesaid. 10. -That nothing herein contained (except as herein expressly provided) shall affect the right of patentees to grant licenses to any other person of persons to use or exercise the said invention for the purpose of manufac turing sugar or otherwise. Provided always that in case any difference shall arise between the said patentee and the said licensee in regard to the construction of any of the provisions herein contained or any matter or thing relating to these presents such difference shall be forthwith referred to two arbitrators, one to be appointed by each party in difference or by an upire to be chosen by the arbitrators before entering upon the con tion of the matters referred to them, and if either parties in difference shall neglect to appoint an arbitrator for the space of fourteen days after a notice in writing so to do shall have been given to him or them by the other party or shall appoint an arbitrator who shall refuse to not then the trator appointed by the other party shall make a final decision alone. In witness whereof the parties to these presents have hereunto set their

hands the day and year first above written. Signed by the said PAUL LAURENT EDMOND ICERY, LEON ERHEANN and CLARE BERNARD by their

Signed by the said

in the presence of

HANALEI, KAUAI, October 3d, 1883.

R. A. MACPIE, Esq., Kilauea. DEAR SIR:—The boiling house at Princeville is run as below. The jule leaving the mill is run to the clarifiers and there clarified, as given in another paper, to you; from thence, it goes to settling tanks, where it remains quiet for from 20 minutes to half an hour, then passes on to the sweep pans, and from thence to evaporation, which is a large single vacuum pan worked entirely by exhaust steam. Here the juice is concentrated to about 25° or 30° Haume, and then passes on to the granulating pan. As to the cost per ton of sugar manufactured, I will give you the average of four (4) weeks work; 311 clarifiers, 700 gals, each; average density, 9 per cent. Baume; yield per gallon, 1.70 lbs.; whole amount, 199 tons, 975 lbs.; cost per ton of sugar manufactured, including fuel, \$9.00; residue left per ton of sugar, 11) gals.; sugar obtained, first, 72 per cent., second, 20 per cent., third, 8 per cent., total, 100 per cent.

We granulate the first sugars, but second and third are boiled to proof and run into coolers, where it seems to work best with us. The matter of molasses should have more attention than it has had hitherto.

In Germany, near Hildeshinn, a large factory has been erected solely for the purpose of working up molasses. This factory possesses a patent in which strontium is used to purify the molasses, preparatory to boiling. It is alleged that they obtain very much more sugar by this new process. It would perhaps be well for our sugar industry if this patent right was brought and applied here.

I have only given a brief outline and hope you may receive more in-R. A. Macfie, Esq. elligent news from other parties, bearing on this point, but if you think that any part of this will suit for the report, please Insert it. Yours very truly, CHAS. KOELLING, Manager P. P. Co.

PAIA, MAUL, H. L., Oct. 5th, 1883. R. A. Macvie, Ja., Chairman Committee on Sugar Manufacture : DEAR SIE,-Your letter of inquiry of the 21st ult. at hand, and is reply would say that our method is to allow the juice to run first into the clarifiers from the rollers, where it is treated with time and brought to a boil, then allowed to settle a short time and is drawn off into the cleaners through a pipe which enters the clarifiers about one inch above the bottom, the residue is then drawn off into a tank and put through the Otto mud. The juice which is drawn off into the cleaners is then clarified, and then evaporated in a double effect vacuum pan, thence to the vacuum pan, where it is crystalized and run into a tank, thence through the centrifugals where the molasses is separated from the sugar and allowed to run into tanks underneath, from thence it is pumped into a tank, into which is a perforated steam pipe, where it is boiled or blown up and treated with lime, and from thence it is drawn into the vacuum pan and belied to proof, then run into cooling tanks, where it is allowed to stay until it granulates, which it does in from three to six days, then it is put through the centrifugals, where the sugar is separated from the mol it still contains, and that molasses put through the same process, making another grade of sugar, then the molasses from that run into large reservoirs, there to remain until the end of the season, when we dry out the

reservoirs and get a considerable quantity of sugar from them.

Some times we granulate the first molusses in the vacuum pan, then we reduce it with water while in the blow up to about 35° Baume, then as frequently as the sugar boilers thinks necessary, introduce water into the vacuum pan through a pipe affixed for that purpose, in order that the We have intended to make experiments, n order to find out which was the best method, but have not yet done so. I give you the yield of two fields per clarifiers of 567 gals., Julee density

We have every reason to be satisfied with the one we have, Otto's, and I will have to refer you to an article I wrote on that subject, which you will find in the April No., Vol. II., page 15, of the PLANTERS' MONTHLY. COST OF MANUFACTURE.

As I have not the exact figures, I cannot give you the cost of manu acture. Mr. Baldwin will be down to the October meeting, and perhaps he may be able to give them to you. E. M. Walsit, Manager Pala Plantation. Yours truly,

HANA, 29th Sept., 1883. R. A. Macfie, Esq. Dear Sir:—Your favor of 20th inst. I received this day, but no mai

enves here before 3d inst. Our last crop we boiled to sell as refinery sugar, and here are the results: First First Watson etfs. Sugar, Molasses Sugar, Molasses Sugar, Number Ilis, Ilis, Ilis,

1,327,738. 258,246. 155,574. Total of sugar, 1,741,588 fbs.; or 912 lbs. 4.6-100 ezs. per chriffer Juice average, 2,45° Beaume.

ons of sugar.

We convey came partly by bullock and mule carts, partry by rate.

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We can and bave uses constructing also controlled the controlled and the cart to the railroad, and relocat; our place is not this plant 12 tons per day, in nine hour's work, with 12 hands all fold.

So far, nothing has been done with the melasses here, but I am this season constructing elsterns for the purpose of collecting the No. 3. is exceedingly profitable in long distances. As I am not grisding on season constructing distances for the purpose of collecting the No. 3 shares for others, I have not occupied myself with figuring on the cost of molasses, and making sugar from them, as I am satisfied that it will pay shall be the time at which it is packed in the mats, bags or other recepmaking the sugar from the time the cane arrives at the mill until it passes out as sugar. I have Chinomen raising cane, paying them a certain amount per clarifler of juice. If I furnish a planter my land to plant on, very interesting. Mud presses are very useful; for doing our work we require four and presses; and I should be glad to have presses that work more expeditiously. If Mr. Loebenstein's press is what he says

icense and of all other particulars in relation thereto which may be the cane, when subsequently I cut and cart the cane, I consider his ording material for the purpose of shewing the amount payable to the patentees a very small one, perhaps \$75 per acre; and in comparison with mine by way of royalty as aforesaid. And the said books of account and all other documents in the possession of the Reensee, relating to the said many Instances paid too much; some tables on these subjects might prove about it, I would prefer it to the Otto press, that is too slow for my fancy.

About moisses boiling, I would like to be instructed. The application of carbon gas to the juice, as in Otto's method, ought to influence of the molasses; I doubt much that if it does. Using double effects and subsequently vacuum pans ought to make the molasses sugar run off freer. and I hear from Mr. Buck, at Kau, that it does. We have not had any chance to test it. If there is anything in these disjointed remarks that is worth noticing by you, it is for you to judge.

I have nothing of any especial importance to communicate to you.

I am, your obedient servant, Nons neus verrons!

KAPAA, October 1st, 1883. R. A. Macrie, Jr., Esq., Chairman of Committee on Sugar Manufacture of the Planters' Labor and Supply Company.

DEAR SIR:—Your esteemed favor of the 18th ult. has been received, and contents noted.

In compliance with your request, I herewith furnish you with facts and statistics, relative to our methods of manufacture and yield of sugar, etc. To start from the beginning, the juice after coming from the mill passes

through a heating tank where it is warmed with waste steam before enering the clarifiers. In the clarifiers, it is subjected to the usual process of liming and is heated to the boiling point, after which it is run into a long shallow cleaning pan, made on the principle of a sorghum pan, where it is boiled and skimmed as much as time will allow, there being a constant stream flowing into and out of the pan. It is then evaporated in the double effect to a density of 28° or 30°, after which it is again subjected to a cleaning process in deep pans. It has been found that this dea

less heat is required than when the julce is lighter. When no more sen arises to the surface, the juice or syrup is let into tanks where it was until cool enough to be taken into the vacuum pen.

We have never tried mud presses, but simply run the sub the clariflers and various cleaning pane into a mak, where a lime mass lime is added, and the liquor is brought to a bell, and their after of the stand and settle until the next moraling, generally makes gallons of good luice to a day's work.

In regard to molasses, it is our practise to boil it the dist day mped from the centrifugal tank into a blow-up, boilding about his hundred gallens, where five pounds of lime is mixed with it, and it is bear's blown up with steam until the density is reduced to \$5°, and it is beared to not over 200°, all the dirt being skimmed off from time to lime as ollects on the surface.

Our average yield (average density of Juice cold it') for the last crepwas 1477 lbs. of sugar to the standard gallou of juice, or 1,773 lbs. Is the nperial gallon, and the percentage of the various grades of steam was 73 per cent, first sugar, 18 per cent, second, and 7 per cent, third

The cost of manufacturing sugar at our mill, including interest, regul and improvements, running expenses, etc., "from the delivery of the cane at the cane-carrier to the output of the sugar from the sugar-room, nounts to about \$18,00 per ton.

I fear, that you will not find much that is original or of informat in the sove, still, if you can make any use of it, please do so. Greek, II. Dries. I remain, sincerely yours.

R. A. MACPIE, Esq. DEAR SIE:-Yours of Sept. is to hand. I send you an account of our ss of making sugar, which Mr. A. Moore, in charge of nalls, has written out for me. We hope next year to have a more complete remail as we shall this ensuing crop be able to tell exactly how many galless of

juice we grind in a day. Hoping you will excuse this short report, I am, yours irray,
Geo. C. Williams

TREATMENT OF CASE JUNE AT THE MILE OF THE BANGALIAN

COMMERCIAL COMPANY. The juice after being extracted from the case, pures through three reens arranged in the juice tank, two of these are as fine as centrifugacreens; from this tank it is forced by a small steam pump to the tanks it the clarifying house, a distance of about 150 feet; is its passage, it is conducted through a heater connected to the mill engines. After the julies agreement through a as passed through the heater, lime water is forced into it by a result the pump attached to the juice pump, and operated by an arm attached to the piston rod of the pump, so that with each strake of the pump, a certain ater is used, regulated by a valve in the suction the lime pump; this can be set very correctly, any variation of the water seing very sensitive on the Juice, by this means, any desired quantity of water can be applied regularly, and thoroughly mixed in the Jules.

Our method of clarifying differs from that adopted at the other mills on the Islands. The clarifier is made of wrought from 24 feet long, by 2 feet wide, by 24 inces deep, having a false bottom and 5 coils. Below this is the cleaning pan, 20 feet long, by 5 feet wide, by 24 (achies deep, the juice being conducted through a pipe from the upper to the loster pan, and by means of guards conducted from near the bottom of the pan.

In the morning, we fill the clariflers to a certain beight, then bring the nice to a crack, and clean it thoroughly, after which we open a valve from Juice tank, and permit the Juice to pass in a small stream into clarifier, having to pass to the other end, mixing as it does with the class juice, the foreign substances, dirt, etc., rise freely is the top, and as skimmed off as they collect, and conducted through a 4-luch pipe to our scum tanks. Steam is applied to the false bottoms only, in sufficie quantity to simmer slowly from the bottom to the surface; as the juli accumulates, it overflows to the cleaning pan, in which we captly about the end coil only, as commonly applied at all mills; from here the lukes overflows to tanks, from which it is pumped to the triple effects, so that after the Juice is once cleaned in the mornings, a stream is possing a stantly through the clariflers, cleaners and triple effect, thus keeping the heat first applied in the juice all the time.

We have not applied filter presses thus far; with fair juice and our ystem of clarifying, I don't think they would pay, but with dirty ummy juice, we would save some of the juice when we cannot allow stand long enough to settle, but we would also remin the rum from which we are terribly bothered in canc planted out of season.

From the triple effect the juice is forced to the pur room, our pan hav-ing a free discharge enables us to boil it very stiff. The medianes from the sugar is blown up as it leaves the machines, and pumped at one the pan room of the molasses house, where it is blown up again and taken into the pain. As it is not allowed to stand long, we sio not find it need sary to apply lime, but boil it to a string and let it down into cooler allowing it two days before drying, in which time, with fair Julee, it can be almost handled as a cake. The molasses from this is boiled up in dmilar manner, but allowed to stand from eight to ten days. The molasses from this is conducted to a concrete trait outside, from which overflows to the saver. For next year we are making preparations to bold our third molasses, and save all in concrete tanks.

As we have not been able to ascertain the quantity of jake that we have worked, it pressing through the clariflers continually, we cannot state the quantity of sugar per gallon, but will be able to do so next year. Again our mills have been run so unsteadily last year, the mills having to stand for cane, and this year only running two nells, and all case plants very much out of season, the mills have not had a fair chance. Whe we get a crop of fair cane to take off, we will take pleasure in informing you of all statistics connected with the manufacturing of cumar at Spreek

DUKADA, October 105, 18-55.

DEAR STR:-Your favor of the 18th ult, come duly to bond and to reply I would state that as our cooler sugar for the crop of 18-2 har per get been iried off, my figures for the season are not con-

-No. 1, 70 per cent.; No. 2, 20 per cent.; No. 3, 10 per cent The estimated cost of manufacturing sugar, after the to the carrier, is \$16 per ton. The filter press effects a saving of from to 30 gallons per clarifler. Owing to the limited cooler room in the water for condensing more than once, the water supply being insufficien to allow a continual stream of cold water. For week's together the water has been at a temperature of 104, and in very hot weather as high as 110. I remain, yours truly,

Honolulu.

HERIA PRANTATION, KOODAY, UKING October 7th, 1888, R. A. MACFIE, JR., Esq., Chairman of Committee on Sugar Manufacture

DEAR SIR:-In reply to yours of 28th ult., as to the process of sugar mufacture at this mill, I berein cheerfully comply, and will endeav to make the subject as clear and at the same time as condensed as possible The cane juice from the colls is conveyed by gravity through an iron pipe to the clarifier, there wilk of lime standing at 16 Hamme is added ecording to the indication by litmus paper, and which I insist upon being applied at intervals during the day work, no matter whether the canre continued from the same field or not; no rule of thumb allowed to thi process if I know it. The five charifiers are connected by a four both pipleading into an iron trough. When the clarified jules is drawn off, the esiduum is then thinned and run off into said trough and there allowed o precipitate, the liquor drawn off by the person attending the element I give you the yield of two helds per charmers of our gales, plus of 10° Baurne just after being charified, we have a yield of 885 lbs., 71 per The skimmings are carried by gravity into a small (low up, and after cent. A., 22 per cent. B., 7 per cent. C., 24 oz. per gal, for field. Another treatment there are conveyed to the concentrators. The whole is arranged of 10° Baume just after being clarified, we have a yield of 880 lbs., 71 per cent. A., 22 per cent. B., 7 per cent. C., 24 oz. per gal. for field. Another per clarifier 567 gals., 25 oz. per gal., 805 lbs., 73 per cent. A., 23 per cent. B., 4 per cent. C., density of juice 11 after clarification. These I cent. B., 4 per cent. C., density of juice 11 after clarification. These I have frequently shewn to the sugar-boiler that the washings from the have frequently shewn to the sugar-boiler that the washings from the clarifiers saved in this way weigh from 14" to 24" more than the jule from the rolls or that run off after clarification.

The juice after being clarified is conveyed to open pans terms of classers ntaining copper coils; from the cleaners to the condensers sant opper colls, and open to the atmosphere, next to the ordinary style o vaccium pan, where it is further reduced to grain latino, and these to the centrifugals, and of the latter by the way, there has just been a sit of four crected of a new style of arrangement, and which I think are worth of strong recommendation to the attention of planters for their compact orm and entire safety of the attendants from breaking of belts.

With regard to the other matters, of proportions of yield to the mallon of juice, and cost of conveying cases, I very punch regist being unalle to omply at this writing, as the gentleman to whom I gave the memoran lum is temporarily absent in California; however, the yield, as also the cost of conveyance, varies on this plantation, owing to the cuitivation being both bottom and upland cultivation; the gravity of the juice the rolls varying from 65° to fully 12°.

Respectfully remaining your oberlient servant, John Ross, Superintendent H. S. P. Co. PACTURE SUSAN MILL, KURUSTARIA,

As yet we evaporate in open evaporators, but when circumstances per-ait it we will have a double effect. We can therefore not show as good

R. A. Macfir, Esq., Kilanea.

DEAR Siz:—Your favor of the 25th inst. is to hand, and I shall can mit it we will have a double effect. We can therefore not show as good results as should if we used double effects. We use 1 ton of coal for 3; deavor to furnish you herewith the information you require. Our mill is a Mirrless, Tait & Watson's, of Glasgow, of an eight ton Soda Water and Sarsagona

> well to do so. We have had two of Otto's mud presses in operation this sesson, and they have been a valuable adjunct to our mill. I should advocate the introduction of presses into all mills. But more durable and simpler ones than those of Otto's, though one man, with the accasional help of another

as been sufficient to attend them. Our output for 1883 has been 1046 tons; yield per gallon average, 011; average density, 101; percentage of sugars has been about, 621 per cent. for first, 201 per cent. for second, and 10 per cent. for third. The cost of manufacture on the above crop has been at the rate of \$25 ser ton, including all expenses, such as interest, labor when the will has soon warms.

My time has been too short to place before you all that I should fike to say in connection with this subject, as I might have been able to have placed before you some of my opinious gained, in connection with West

> I am, sir, yours very truly, THOS. MCKAY

HARAKUA" MILL COMPANY, PAAUTIO, Hawati, October 11, 1883.

R. A. Macrie, Eq., Chairman of Committee on Sugar Manufacture Six:-Your interesting communication of the 28th ultimo arrived by est mail, and has been carefully perused.

In reply to your "general" question, so to speak, of "motivals in 'ogue," etc., I can only say that it appears to me that to accour such a question fully would require a somewhat lengthy and detailed description of the manufacture of sugar, such as I have not to sure to draw ep, and which when done—if I may be allowed to say a)—would be better killed as matter for the pages of an Encyclopadia than for the inspection of a body of gentlemen, as fully conversant with the principles of sugar forms.

With regard to the specific questions of "treatment of molasses experience of filter-press," I may say that the filter-press, as for as my experience goes, works fairly well, and is, perhaps, the best method of

spressing jules from skimmings that has yet appaired. In treating first molesses of the No. 1 sugar-1 always grain my No. 1 ugar in the vacuum pan, as bijery opinion there is great sector of these and labor in the manufacture, that a better quality of No. 2 segar is produced. Second molasses (from No. 2 segar) i belt to a proof rathe vacuum

PERSONAL VALUE OF STREET

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All the Latest Style Willinery wood Ladies Underwess, etc.,

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DRUGGISTS

Tobacconists. AN AREAST STREET, Hotel Street Market.

metive, yet can't keep up.

proportion of No. 2 sugar. I must say, however, that I do not wish to appear as an advocate of

hard set rules in sugar boiling. Of coarse if a manager thinks that sufficient saccharine matter remains in his third molasses to warrant a fourth boiling, he is unquestionably justified in doing so, but, as I before stated, with ordinary appliances for the manufacture of sugar, three boilings of juice should in my opinion have sufficed to produce all the sugar the juice should be heated to the holling point. nuble from such juice.

I regret to say that circumstances do not permit of my furnishing you with the statistics of this company's work in the post. I have the honor to remain, sir, your obedient servant,

James R. Renton, Agent H.M.C.

PAACHAU, October 11, 1883. MR. R. A. MACPIE, JR., Honolulu.

Dwan Ser .- Vonr favor of the 29th ultimo arrived here too late to b as explicit in my answers to your questions as I wished to be if I had more time. I will give you, however, some statistics of sugar we have turned out per one clarifier of 500 gallons;

This is of Nos. 1, 2, and 3 sugar; besides, we are making No. 1 sugar which will add about 15 lbs. sugar to a clarifier. The density of the juice from the rollers varied from 91 to 101 Baume. The percentage of sugar of the different grades is about as follows:

68 per cent, for No. 1-polarizing from 96 to 97 per cent. 44 No. 2 44 4 89 to 91 44 47 No. 5 44 4 86 to 87 44

I am using in the Paauhan Mill my skimming presses, with the most e skimmings and settlings in the pans the Juleo at one clarifier in every We are working with a double effect in the Panaban Mill with great satisfaction; no fuel but trash is used, and even that we cannot use all-

The above figures are a part of this season's work. We are still grindand will yield about 3] tons of sugar per acre-

Hoping this information will be satisfactory to you, I temain yours, A. Otro, Manager Paanhau Mill, by E. Kleiman. STAR MILE, KOHALA, October, 12th, 1883.

MR. R. S. MACPIE, JR. DEAR SIRE-Yours to hand. In reply say, our No. 1 molasses we " blow up" and lime, then grain in the pan. Our No. 2 molasses we treat cent.; No. 2, 29 per cent.; No. 3, 10 per cent.

Yours truly,

G. B. EWART, per Y. R.S.

Kankana, October 11th, 1883. Mr. R. S. Macerr, Honoldin. We get I oz. of sugar per gallon. The cost of manufacturing sugar I

could not say, as we do not cart the same to the mill. I remain, yours very truly,

LAHAINA, Getober 10th, 1883.

R. A. MACPIE, Esq., Honolulu. DEAR SIR:-Your favor of the 26th is duly to hand, contents noted. In regard to your enquiry about how we treat melasses at Luhaina, I will imply say that our molasses is blown up (as I suppose others do). After liming and carefully skimming, it is taken into the pan and boiled to proof (as we don't grain our No. 2), then run into coolers, and left to horoughly cool, say 4 or 5 days. This is a "strike," one pan full, consisting of 1500 gals., from which we get about 3 tons of sugar, more or less; I wish to be a little juside the mark, for some would say, 2] Ibs. per gal., not less. With our first molasses boiled in this manner. I use from gal., not less. With our first of the search 500 gals, molasses, making from 15 to 21 gals, to 7 gals, lime to each 500 gals, molasses, making from 15 to 21 gals, to This subject ranks with the cultivation of sugar cane in its importance the "strike." I use no dry lime, but the cream of lime weighing 10. This to our planting interests, therefore it is to be regretted that the is boiled and skimmed with an additional quantity of time, say from 9 them from 12 gals, per 500 gals, of No. 2 molasses; I have always found this the for good.

proper way of treating molasses. In regard to mind or senin presses, I know but little about them. Saw one at Pals on Bahawin's, was pleased with its working. Mr. Baldwin thought it saved about \$25 worth of juice or sugar per day. This was the Otto press, first cost of which is \$1200; I think every plantation ought to have one. Our first sugars or rather juice is treated as I believe all planters the, we add our hime, 1) gal., when the juice is warm, or say; charmed the property of the pro our crop looks as well this year as it did in 'do, as our irrigation street

s the fertilizing material, thereby keeping up the crop. You ask about the average cost per ton of sugar. This is a very diffi-cult question to answer, for I believe but few can answer the thing correctly; however, I will say, that as near as I can figure, my sugar is cos ing about \$8 or \$9 per ton, and I believe but few can make for less; I am speaking now of manufacturing only, as I have nothing to do with planting. My labor is considerably reduced by the improved machinery. have the Jarvis' turnaces in, and they are doing admirably; from trash direct from mill, we keep up 60 lbs. of steam easily, and the only diffi-culty now is. I can't get the cane to the mill fast enough, but hope to do We are hanling cane 5 miles on a good road, and a Baldwin loco-

> Yours very truly, H. TURTON.

HONOLULU, 6th October, 1883. R. A. Macrie, Ja., Chairman Committee on Sugar Manufactu P. L & S. C.

DEAR SIE:-There falls but little for me to remark on the system r manufacture on these Islands, as the treaty with the United States bind the manufacturers to only make such quality which differs in quality to that of other sugar producing countries; but it appears to me in a good that I am trespassing somewhat upon what more properly belongs to

The general method in these Islands of concentration of the juice when

triple effects are used, is done in the following manner: The juice is

first clarified in clarifiers, and from there it is drawn into open evaporator where it is bolled for some time. The reason they do this is to enable them to clean the julice before entering the triple effect. Would it not be a proper suggestion for me to make, instead of taking the juice into Monthly for October, is well worth reading, and takes the ground that these open evaporators from the clarifiers, to take it direct from the trotting stock lasts much better than running stock. clarifier to the triple effect, provided that your triple effect will not be tasked beyond the quantity of work it was meant to perform. It will be said that if the came Juice is passed from the clarifler to the triple effect, it sorghum is perhaps the most easily grown of our forage plants, and has will not be sufficiently cleaned. That may be so, yet the sugar produced the advantage of furnishing a forage from the plant, and a meal from the will be quite as good, because it has been demonstrated by practice that a grain, the only objectionable part of the seed being the bull, which can second skimming of the syrap after leaving the triple effect (which is then in a much smaller quantity) secures to it absolute brightness and purity.

Instead, therefore, of elaborate sicinating on a great number of open in fact, without this it is doubtful if it will ever prove a profitable crop. pans, which after all does not accomplish its purpose, because impurities continue to form as long as concentration is continued, let the first prelimitaries be dispensed with, heat up in clarifier after discharge from triple effect, and from receiver supplied by that clarifier, draw at once into the vacuuta pan. Under such a system the value of your triple effect would be more correctly ascertained than by a combined mode of evaporation, and the use of fuel greatly reduced. But bosides saving in fuel, great power and rapidity of working may well be claimed for this method of evaporation, and in the case of sugar solution it means gain both in the

This assertion will not be disputed by all who have carefully watched the progress of manufacture from the cutting of the canes to the finished This supplementary clarification of syrup is not only theory but an actual practice in other countries

Another economy can be practiced, that is the vapour from the third pan on its way to the injection condenser and airpump can be drawn Carongh as cane juice heater. The latter apparatus having the cane juic from the mill jumped up its tubes, would serve as a surface condensor to the triple effect and as a partial heater to the case juice.

pars. In conclusion, I will add in regard to open paus that the great amount of evaporation, provided the ingress is good, proves nothing was drawn up by the Secretary which was passed by the Legislature and agadast the triple effect. The ingress or any other fuel or steam as a heat-ing medium, can give out no more heat than it possesses, and in the open pans the effect of the heat used is single and that of the triple of this Association, with a salary to be paid by the Territory." This is effect is treble, of course the saving of fuel of the latter must be propor-

I would call the attention of piguters more to the use of cane juice a would can the attenue a part of the page 27, sec. 5; page 28, sec. 7; page 28, sec. 1; page 30, sec. 3; page 28, sec. 7; page 28, sec. 1; page 30, sec. 3; page 28, sec. 7; page 28, sec. 1; page 30, sec. 3; page 28, sec. 7; page 28, sec. 1; page 30, sec. 3; pa purpose is to bring the juice into immediate contact with heat, thereby eking fermentation which sets in as soon as the luice comes into contact with the air, and another great advantage derived thereby is that the juice is heated to a temperature of 150° fah, before many seconds from the time the juice enters the cylinder to the time it leaves it. The heater tion of Button Farcie, is—corrosive sublimate crystals 10 grains, powdered can either be worked by exhaust or direct steam from the boiler. The

cost is small compared with benefit derived by its use Yours respectfully, Lot LOUIS J. LIDNARONS.

HANALEI, KAUAI, Sept. 6, 1883, Mil. R. A. Macrie, Jr., Chairman of Committee on Manufacture of

Sugar, Planters' Labor and Supply Company. DEAR SIR :- In the following I shall try and give you a little sketch relating to the manufacture of cane sugar, which you may give a place in the point to the Planters' Labor and Supply Company, if of sufficient interest. I shall try and depict what a sugar-boiler has to attend to in

the boiling-house. The duties of a sugar-boiler commence with the clari-First of mil he should see that his clarifying pan is thoroughly clean; and therewith our pastures. and when the steam pipes are covered with juice, sufficient steam should be turned on to heat the juice to 180. Farenheit by the time the panis-filled. Remove most of the scum and vegetable matter before time is milded, as it will prevent the unnecessary extraction of coloring matter which would tend to darken the sugar.

all actility in the juice should be removed; but, in my experience, I have the person or persons agrieved.

Found that a slight actility is no bindrance to obtaining all the chrystalhobble sugar in the juice. It works more freely in the pan, and imparts a lastre to the cry this. Whereas, if a perfect clatification is obtained, the if described as calife, and for the purpose of this act, the proof brand shall wear is pule, and in fact a part of obtainable sugar is destroyed by the breer quantity of lime used for perfect clarification.

and to temper to an even hipe.

The time a best-mile, about 6 x 1; of pure white glass should age of

I should here like to say a few words on the, to me, mistaken idea of be employed, as it will, after a time, become of value to the sugar-boiler claiming a superiority in the art of beiling sugaron the score of producing in ascertaining the amount of lime in the Julee. I find that by a practical a fourth and even lifth grade of sugar. My experience of sugar boiling clarification if the test tube is employed, the sediment in the Julee will and down like down in the air, and the test tube if turned to the light exhibits through the centre a column of brown color.

If dark brown all through, lime has been used excessively. Lime should be applied as milk of lime from 5" to 7° Baume, and added to the clarifier when full and heated to 180° Fah. The juice should be well agitated when ouring in the milk of lime so as to insure a thorough mixing, after which

We now come to the cleaning pans. To facilitate the cleaning, the larified juice should be allowed from 15 to 20 minutes to settle in conainers provided for the purpose. I shall make no remarks concerning caning as various methods have been adopted, and we may hear from ther sources something about cleaning juice.

We now come to evaporation, and various methods have been adopted ere also, from the common vacuum pan to double and triple effects, are use. Here the juice is simply concentrated to from 15" to 30" Baumo nd is then taken to the granulating pan. This process has been known or about thirty years and is considered the most practical method at pre-I shall try and describe the method of granulating the sugar.

If the sugar boiler is well acquainted with the mechanical operation of e pan, he will first draw in as much of the concentrated Juice as will fill e pan above its steam pipes. Then commence boiling and be careful that the pan is about one-third full by the time he is ready to co forming the crystals. This is done by the following method: Boil the mass down to a light finger proof, which means, that when a test is made by the peool rod and the matter taken out between the thumb and the re-finger, the finger is brought down upon the matter without pressing

and again withdrawn about four or five inches. The matter ought then to draw a fine thread without breaking. This is the most correct method if large crystals are required. This point of corcentration having been reached, the feed valve is opened, and a charge of about one inch of juice it taken into the pan; this is again boiled down to the former point, and the same operation performed over again. With satisfactory results, for about two years now, and claim that I save from normal juice, four or five charges are sufficient to form the nucleus of the crystals, which can be observed more closely by putting the matter on a piece of window glass, and holding it perpendicularly against the light, the discretion of the court. when they will show themselves by giving off faint sparks of light. This point reached, the mass in the pan which was a sort of paste during the peration, is getting more free and will probably require more boiling fore taking in more juice, but when the former proof is reached, Juice by the proof roal, but there are other methods which ought to be ob-served as well, such as the standing of the vacuum metre, which should after the passage of this Act, a competent veterinary suggest, who shall be

ever be less than 26° for the granulating pan. When the feed valve is open the vacuum metre will slowly fall back an take an oath to well and truly perform his duties as provided by law. former point to a nicety the pan should be recharged.

e-glass, as a less expert can tell by the proof rod.

the same I beg to say that I prepare my melasses as follows: I put so in. When the pan is nearly filled-say four or five charges before strik- charge of such animals so arriving, to notify the territorial veterinarian much steam and water in the molasses that it stands 80° and then boil it ing-it should be holled a little stiffer one after the other, in order to without delay, and not to allow such or any of them to leave the place of in a very clean pan and let the lead not come higher than 152. Our mind reduce the syrup between the grains, and obtain as much first produce as possible. A great point to obtain all the sugar in the mass is not to have too much syrup between the crystals, as undue boiling will convert some

crystallicable sugar into grape sugar.

During the whole of the operation the sugar boiler should be constantly spoil the good beginning of the strike, and the result be accordingly. No less than fifty nor more than five hundred dollars for each offense, agar boller should tolerate any fermentation of waste matter around the beiling-house, as the germs of fermentation are very easily transferred.

Yours very truly, Chas. Koellano, Manager Princeville Plantation Company LIVE STOCK REPORT, 1883.

GENTLEMEN OF THE PLANTERS' LABOR AND SUPPLY COMPANY: The intelligent efforts made during the past year for the development and improvement of our live stock is worthy of commendation, and likely to

I believe is the proper way to use lime, yet many use it dry. My No. 3 diffidence of the gentlemen who well understand stock should prevent them from alding actively in the discussion, which might make effective

A disposition is being manifested to import and breed heavy draft A disposition is being mannested to disposition in the governor, and the unpacked given to and disposition is being mannested to disposition in the collection of the being mannested to disposition in the collection is being mannested to disposition in the collection is being mannested to disposition in the collection is being mannested to disposition in the collection in the collection is being mannested to disposition in the collection in the collection is being mannested to disposition in the collection in the collection is being mannested to disposition in the collection in the collection is being mannested to disposition in the collection in the collection is being mannested to disposition in the collection in the collection is being mannested to disposition in the collection in the collection is being mannested to disposition in the collection in and trotting stallions. Mr. Spreckels presented some time since a Norman stallion to Mr. S. T. Alexander, from which this years' fealing shows

"Ivanhoe," "Hancock," "General Garfield," "Basswood," and some h as "Boswell Almonts, and "Triumph ny), owned by Colonel C. H. Judd ; and "Young Venture, oils are well worthy of the inspection of those wishing to purchase first-class trotting stock.

The enterprise of those gentlemen who have spent so freely of their private means for this object deserves the encouragement of all who use iorses. I would recommend the formation of a breeders' association with stock books for recording pedigrees and speed records. There is no longer a need for us to go from this country to purchase first-class animals. For lack of proper records this fact is not generally known. We would urge, however, the selection of Hambletonian trotting stallions in case any more are to be imported, as there are already enough of running ons to supply the demand-and in breeding trotters, always bree from trotters, no running blood is required. From such breeding cariage herses may be had quite equal to our needs, and pacers and lopers will one as well for ordinary work. The enormous price paid for imported mules is amazing in view of the fact that home-bred mules from large nares and imported Kentucky jacks are offered here for \$100 each. The nference is that the Island stock is not so well trained as that imported. If this be so it will pay breeders to encourage the employment of capable trainers who can get constant employment by spending a few weeks at ach breeding ranch, making regular rounds at stated times. I am awar many instances that some of the machinery is misapplied, viz.; the triple live stock association, but until such an association is organized it is well for us to consider this matter. In Kentucky and the Southern State generally riding horses are trained carefully to an easy gait, which i called "singlefoot," and adds much to the riders comfort as also to the appearance of the horse. The proper diffusion of knowledge upon these ubjects will help much to overcome the transportation problem. An interesting article, entitled "Among the Blue Grass Trotters," in Harner,

FEED.—The large expenditure of money for imported feed takes from

prove to be a valuable nutriment for horses and mules. Alfalfa is a very rich forage producing enormously in these islands. Sorghum Halepense, or the false Guinea Grass speaks for itself on Judge McCully's farm, and wherever else grown as well. Efforts made while in Washington to obtain seed of the real Guinea Grass from the Department of Agriculture failed, there being no supply, and efforts made

Wherever cane will grow, all of the above-mentioned plants will do well, hough more likely to do so at altitudes of 1,000 feet or less The algaroba seed is easily produced and answers well in place of oil

DISEASES, &c.-We are suffering from lack of proper laws upon the suppression of diseases among stock. A pleasant travelling acquaintance with Cot. A. F. Babbitt, of Cheyenne, Wyoming territory, resulted in the receipt of a copy of the "By-laws, Secretary's Report, Resolutions and List of Members of the Wyoming Stock Growers' Association, and the Laws of Wyoming to protect stock growers." Many of these are so The trouble of cleaning a triple effete is found to be less than for open admirably saited to our needs that I have incorporated them in my report just what should be done here, and your committee do now reco its endorsement by this Association of laws similar to the following, and the use of our influence to have them passed by our next Legislature :-

32, sec. 10, 11; page 33, sec. 18, 14; page 45, sec. 1, 2, 3, 4, 7, 8, 9, 10, 14, 12, 13. (See Appendsx.) A sure remedy for a disease which has destroyed many mules on Mani gentian 2 grains, ground ginger 1 grain, mixed with flour and molasse formed into a ball, and given to the animal once a day. This treatment should, however, be preceded by a dose of 11 pint of raw linseed oil. Increase the ingredients gradually to twice the quantity, and give green feed, with enough grain to keep in good condition.

The stock-growers of Colorado and Arizona, where the conditions of forage are similar to ours, are largely in favor of the Herefordshire cattle for beef, claiming that there is less waste material to feed upon the short-

every means in its power to carry out the ideas advanced by the Comnittee on Forests, and thus ensure the preservation of our min supply, and therewith our pastures. Respectfully submitted,

W. H. BAILEY, Chairman of the Committee. APPENDIX TO REPORT OF COMMITTEE ON LIVE STOCK,

PROM WYOMING STATUTES. Next find the quantity of time required for a good clarification; this is next limitation point, as the success of all after-operations depend very next cattle of another intentionally, or through neglect, off the range where There is much object; some maintain that fine not exceeding one hundred dollars, one half of which shall be paid to

Page 28, Sec. 7.—In any indictment or complaint under this act, the description of any kind or class of next cuttle shall be deemed sufficient, be decayed sufficient to identify all classes of live stock mentioned in this countries. If there is all for perfect clarification, asserting the stage of clarification it improves the preference. When withdrawn after immersion in the judge, a criginal color has turned and, it shows that more time is wanted, of the recoper with line until a fercity observable shade of red and to temper to an even blue.

The preference of ownership of such stock.

Page 78, Sec. 1.—That no mustang or other inferior stallon, over the age of ten (10) meanths, or Cherokee bull, or other inferior can over the age of ten (10) meanths, shall be permitted to run at large in the said territory of wronting, nor shall any stallion over the age of eights of the Territory of Wronting, nor shall any stallion over the age of eights of the Territory of Wronting, nor shall any stallion over the age of eights of the Territory of Wronting, nor shall any stallion over the age of eights of the Territory of Wronting, nor shall any stallion over the age of eights of the Territory of Wronting, nor shall any stallion over the age of eights of the Territory of Wronting and the said territory of the preference of ownership of such stock.

Page 78, Sec. 1.—That no mustang or other inferior stallon, over the age of ten (10) meanths, nor any Texan, Mexican, or Cherokee bull, or other therefore in the said ten in th be deemed sufficient to identify all classes of live stock a

goes to prove that the man who produces grades beyond the third degree, could, if he had so desired, have extracted an equal number of pounds weight of sugar in three beddings; and very possibly have gained in his than Afty (50) dollars nor more than two hundred (200) dollars, and it

> Mexican, or Cherokee bull, as the case may be; and any ram possessing e-quarter Mexican blood, shall be deemed a Mexican ram Page 30, Sec. 3.-When the stock of any person shall be driven off range within Wyoming, against his will, by the drovers of any drove, and the same shall be found among such drove, every person engaged as rover shall be liable to indictment for larceny, and may be fined in any um not exceeding one thousand (1,000) dollars, and shall be liable for lamages to the party injured, to the amount of two hundred (200) dollars, or each head so driven off, together with all costs accruing in the trial of

ent number to cover all damages and costs. Page 32, Sec. 10.—Every butcher slaughtering neat cattle, shall keep the hides of such cattle at his place of shaughtering for a period not less than seven days after such shaughtering, and such hides shall be subject shall hold his office for two years; he may be removed for cause by the o inspection by stock governors and their agents and employees, persons, other than butchers, who occasionally slaughter neat eattle for herein provided for shall receive five dollars for each day or part of a day secf, shall exhibit the hide, or hides, of such beef, at the time and place they may be actually employed as such, which shall be paid from the he beef is offered for sale

Same page, Sec. 11.—It shall be unlawful for any person, other than the owner, or his agent or employee, to skin or remove from the carcass the skin, hide or pelt, of any neat cattle or sheep found dead. Page 33, Sec. 13.—Any person who shall wilfully do any act prohibited

y this Act, or who shall wilfully neglect or refuse to do any act herein equired, shall be guilty of a misdemeaner, and, on conviction, shall be nished by imprisonment in the county jail for a period not exceeding wo years, or pay a fine not exceeding one thousand dollars, or both, in with his work and made his duty by this act, such as his traveling Same page, Sec. 14.—All persons other than batchers who occasionally

period of twenty days, subject to inspection by any person or persons. ing, at present, plant-cane of a 155 acre field. This cane had suffered much of last year's drought; the juice sands only 8] Banne from the rollers, until the crystals are well developed, when 3 or four may be taken in, and ized to nominate, which nomination may be made upon the recommendathis continued until the pan is full. The proof taking is generally done tion of the stock growers' association of the territory, and by and with the known as the territorial veterinarian, and on entering on his duties shall

inch or two, owing to the fresh juice introduced, which emits so much more vapor. It is generally the case that when the metre has reached its. To investigate any and all cases of contagious or infectious disease among omestic animals in this territory of which he may have a knowledge, or in the same way with the exception that we do not grain in the pan. Do not use a most press. The last piece of many (ratioons) we ground yielded of the mass in the pan, when boiling, and an expert is able to tell with 32 or, per gallor. Juice standing 11°. Proportion of No. 1 sugar 61 per as great accuracy the point of proof, by watching the mass through the information to make visits of inspection to any locality where he may have reason to suspect that there is confugious or infectious disease. And When this test is applied, the point is when the mass in the pan after to inspect under the regulations of this Act all domestic animals that may aving been recharged, is boiling freely, and squirting up its mass in arrive at any railroad station in this territory, when these animals are lected by the several countles, and paid to the territorial treasurer in the break off in a little ball, gradually subsides, and moves wave-like from the territory, and are to be, or may be, used for breeding purposes therein ounced unsound by the veterinarian shall be turned loose, removed, or permitted to escape, but shall be held subject to the order of the veter inarian. Any person failing to comply with this provision shall be in the watch as a change in the steam, whether higher or lower, might deemed guilty of a misdemeanor, and upon conviction shall be fined not

Page 46, Sec. 3.—In all cases of contagious or infectious discuse among omestic animals in this territory the veterinarian shall have authority to order the quarantine of the infected premises; and in case such disease shall become epidemic in any locality in this territory, the veterinarian shall immediately notify the governor of the territory, who shall thereupon issue his proclamation, forbidding any animal of the kind among which said epidemic exists to be transferred from said locality without certificate from the veterinarian showing such animal to be healthy.

Same page, Sec. 4.—In any case of epidemic disease where premis have been previously quarantined by the territorial veterinarian, as before provided, he is further authorized and empowered, when in his judgment essary, to order the slaughter of any or of all diseased animals upon ises, and of all animals under the following restrictions. order shall be a written one, and shall be made in duplicate; and there shall be a distinct order and duplicate for each owner of the animals conemned, the original of each order to be filed by the veterinarian with respectable practising veterinarians or physicians, residents of the territory; or if this be impossible, then two reputable and well known stock. owners, residents of the territory, and shall have the written endorsement upon his order of at least one of said consulting physicians or stock-owner stating that such action is necessary, and the consent of the owner, or

person in charge, before such animal or animals shall be slaughtered. perion shall order the slanghter of one or time of making such order notify in writing the nearest justice of the peace, who shall thereupon summon three disinterested citizens (who shall be stock owners) of the neighborhood to act as appraisers of the value of such animals. Said appraisers, before entering upon the disharge of their duties, shall be sworn to make a true and faithful apprais ment without prejudice or favor. They shall after making their appraise ment return certified copies of their valuation, a separate one being made for each owner, together with an accurate description of each animal slaughtered (giving all brands, ear-marks, wattles, age, sex and class as to whether American, half-breed or Texas) to the justice of the peace by whom they were summoned, who shall, after entering the same upon his ord and making an endorsement upon each, showing it to la properly recorded, return it together with the duplicate order of the veterinarian to the person or persons owning the animals slaughtered, and it shall be the duty of the territorial veterinarian to superintend the slaughter of such animals as may be condemned, and also the destruction of the careass, which latter shall be by burning to ashes, and shall include every part of the animal and hide, and also excrement as far as possible He shall cause the said slaughter and burning to be done as cheaply as practicable, and shall pay the expense from the contingent fund herein-

after provided, taking proper vouchers for the same.

Same page, Sec. 6.—The territorial veterinarian shall make a report at the end of every year to the governor of all matters connected with his work, and the governor shall transmit to the several boards of county ssioners such parts of said reports as may be of general interest to the breeders of live stock. The governor shall also give information in writing as rapidly as he obtains it to the various boards of county commissioners, of each cause of suspicion or first eruption of disease in each

locality, its course, and the measures adopted to check it. Page 48, Sec. 7.—Whenever the governor of the territory shall have good reason to believe that any disease covered by this act shall become epidemic in certain localities in another state or territory or that conditions exist which render domestic animals liable to convey disease he shall thereupon, by proclamation, schedule such localities and prohibit the im portation from them of any live stock of the kind diseased into this Territory except under such instructions as he may deem proper. Any corporation or any person or persons, who, after the publishing of such proclamation shall knowingly receive in charge any such animal or animals from any one of said prohibited districts, and transport or convey the same within the limits of this territory shall be deemed guilty of a misdemeane and upon conviction fined not less than one thousand dollar ten thousand dollars for each and every offence, and shall further become liable for any and all damages and loss that may be sustained by any person or persons by reason of the importation or transportation of such

Same page, Sec. 8.—It shall be the duty of any person or persons who shall have or suspect that there is upon his or their premises any case of tagious or infectious disease among domestic animals, to in report the same to the territorial veterinarian; and a failure so to do, o my attempt to conceal the existence of such disease, or to wilfully or maliciously obstruct or resist the said veterinarian in the discharge of his duty as hereinafter set forth, shall be deemed a misdemeanor, and any person or persons who shall be convicted of any one of the above acts o issions shall be fined not less than fifty dollars nor more than five numbered dollars for each and every such offense, shall forfeit all claims to indemnity for loss from the territory, and upon conviction a second time l shall, in addition to the above-named fine, be imprisoned for a term not less than thirty days nor more than six months.

Page 49, Sec. 9.—The following regulations shall be observed in all ases of disease covered by this Act: 1st. It shall be unlawful to sell, give away, or in any manner part with any animal affected with or suspected of contagious or infectious disease; and in the case of any animal that may be known to have been affected with or exposed to any such disease within one year prior to such disposal, due notice of the fact shall be given in writing to the party receiving the animal. 2nd. It shall be unlawful to kill for butcher purposes any such animal, to sell, give away, or use any part of it, or its milk, or to remove any part of the skin. A failure to observe these provisions shall be deemed a misdemeanor, and on conviction shall be punished by a fine not less than one hundred dol-lars nor exceeding five hundred dollars. It shall be the duty of the owner contagious or infectious disease, to immediately confine the same in a safe place, isolated from other animals, and with all necessary restrictions to prevent dissemination of the disease until the arrival of the territorial

The above regulations shall apply as well to animals in transit through the territory as to those resident therein; and the territorial veterinarian, Receive Prompt Attention. or his duly authorized agent, shall have full authority to examine whether in car or vards, or stables, all animals passing through the terri tory, or any part of it, and, on detection or suspicion of disease, to take assession of and treat and dispose of said animals in the same manner a prescribed for animals resident in this territory.

Page 50, Sec. 10.-All claims against the territory arising from the staughter of animals under the provisions of this Act shall, together with the order of the veterinarian, and the valuation of the appraisers in each case, be submitted to the territorial auditor, who shall examine them without unnecessary delay; and for each one that he finds equitable and entitled to indemnity under this Act, shall issue his warrant on the terririal treasurer for the sum named in the appraisers' report. In anditing any claim under this Act, it shall be the duty of the auditor he satisfy himself that it does not come under any class for which indemnity is refused by this Act, and he shall require the affidavit of the claimant to this fact; or, if the claimant be not cognizant thereof, then of some reput able person who is cognizant thereof, and also the certificate of the veter-inarian (whose duty it shall be to inform himself fully of the facts), that in his opinion the claim is legal and just; and the auditor, at his discre-tion, may require further proof. The indemnity to be granted shall be two-thirds of the ordinary value of the animal as determined by the appraisers, without reference to its diminished value because of its being diseased. It shall be paid to the owner upon his application and the pre-sentation of proofs described herein; and it shall be the duty of such owner to make such application within six months of the slaughter of the nal for which payment is claimed; failing which, such claim shall be barred by limitation

These payments shall be made by the territorial treasurer as before These payments shall be minde by the territorial desired and provided and from the funds provided by this Act.

The right to indemnity under this Act is limited to animals destroyed by reason of the existence or suspected existence of some epizaotic discusse, generally fotal and invariable, such as rinder post, door and mouth

tory; the owner, or person in charge of such animal or animals as are disease, pleuro-pneumonia, anthrax or Texas fever among bovines, glandprohibited from running at large by this section, who shall permit such animal or animals to run at large, may be fined for each offence not less diseases, not in their nature fatal, such as scab or host-rot in sheep, and

epizootic influenzas in horses, no indemity shall be paid. The right to indemnify shall not exist and payment of such shall not any such animal found running at large; Provided, that if any person be made in the following cases: 1st. For animals belonging to the United shall castrate any stallion, bull or ram, and it shall on proper evidence. States. 2d. For animals that are brought into the territory contrary to before any competent Court, be proven to the satisfaction of said Court, the provisions of this Act. 3d. For animals that are found to be discussed that such animal was not of a class of stock prohibited from running at or that are destroyed because they have been expresed to disease before or targe by this act, said person shall be liable for damages to the amount of treble the value of said animal so castrated, and costs of suit; Provided also, that for the purpose of this act, that any stallion possessing one-quarter mustang blood shall be deemed a mustang stallion; any bull possessing or person in charge shall have knowingly or negligently omitted to come one-quarter Texan, Mexican or Cherokee blood, shall be deemed a Texan, ply with Sections 8 and 9 of this Act. 6th. When the owner or claims at the time of coming in possession of the animal knew it to be a seasor or received the notice specified in the first clause of Section 2 of this Act.

Page 51, Sec. 11.—The territorial veterinarian shall receive for his serices the sum of twenty-five hundred dollars per annum together with hi actual necessary traveling expenses when in performance of his duty These payments shall be made from the fund provided by this act, the salary from the appropriation for salary, and the traveling expenses from the contingent fund, upon vouchers signed and sworn to by him and approved by the governor, separate vouchers being made for salary and aid cause, and said herd or stock shall be liable for the same, or a suffi- expenses. No person shall be competent under this set to receive the appointment of territorial veterinarian who is not at the date of his appointment a graduate in good standing of a recognized college of governor, who shall also have power to fill a vacancy. The appraisers ounty fund upon the certificate of the justice who summoned them. ustice shall receive his ordinary fee for issuing a summons, to be paid out of the county fund. The members of the Board of Health, veterinarians physicians, or stock holders called in consultation by the veterinarian shall ach receive five dollars for each day or part of day they may be actuall so employed, and ten (10) cents per mile mileage for distance actually traveled, which sums shall be paid from the veterinarian's contingent fund ereafter provided. For this and other incidental expenses connectes expenses, causing animals to be slaughtered and their curresses burned, and disinfecting infected premises, the veterinarian shall have at his disslaughter neat cattle for beef, either for home consumption or for other purposes, shall keep the hide or hides of such animals slaughtered, for a veterinarian contingent fund.

veterinarian contingent fund. Before entering on the discharge of his duties he shall give good and ufficient security in the sum of five thousand dollars for the proper management of the same. He shall make a sworn statement sem annually to the governor, supported by full vouchers of the amount dis-dursed; any part of the three thousand dollars not used shall be covered into the territorial treasury. No constructive mileage shall be paid under

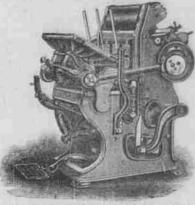
Page 52, Sec. 12.-The liability of the treasury for indemnity for als destroyed under the provisions of this Act in any two years is mited by and shall in no case exceed the amount appropriated for that

surpose and for that period. Same page, Sec. 13.-Hereafter it shall be the duty each year of the territorial Beard of equalization at the time of making the annual assess ment to levy a special tax not exceeding one mill on the dollar upon the assessed value of all cattle, sheep, horses and mules in the territory, to be known as the stock indemnity fund. Said tax shall be levied and colsmall jets all over the pan from 12 to 18 inches in height, the tops of which such as to warrant the presumption that they are intended to remain in manner provided by law for the levying, collection and payment of other territorial taxes. Said fund shall constitute the indemnity fund specified DEAR SIR: -Your favor of 19th uit, came duly to hand, in answering side to side. This point reached, a new charge should be taken And it shall be the duty of the owner, or in his absence, of the person in by this Act to be used in paying for animals destroyed under the provions thereof. It shall be used exclusively for that purpose, and shall be paid out by the territorial treasurer as hereinbefore provided for. Page 53, Sec. 14.—Phis Act shall take effect from and after its passage

Approved March 8th, 1882.

# HAWAIIAN GAZETTE

PRINTING ESTABLISHMENT,



Nos. 25 and 27 Merchant St., Honolulu

# erson in charge, before such animal or animals shall be slaughtered. Page 47, Sec. 5.—Whenever, as herein provided, the territorial veters PLAIN AND FANCY PRINTING

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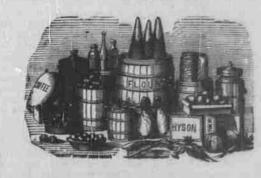
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### A Blighted Life.

"Pass the butter."

Out beneath the star gemmed sky, and under the sturdy old oaks that had bid defined to the stories of centuries, Girofie Mahaliy and George W. Simpson were sitting that beautiful June night, the balmy breath of the evening that was being wofted in sighing kisses from the everglades of Florida maile wood by the chirp of the cricket, and the low, mellow note of the dissipated tement, as he wandered listlessly around the backward, now and then dedging in a nonchaint. yard, now and then dodging in a noncludant languid fashion the latest hootjack us it camharring through the air with cruel force, or stopping beneath a window to see if his hew! was still within reach.

Upon from the westward came the sound of the scans its silvered foam plashed in rythinic cadence on the white sands of the beach, and Brieften Villa could be seen, ever and anon, especially anon, the fiffal flicker of the ice cream hairs that decked the horizon in every

It was a night for a poet's pen, a painter's brush, or a large schooner of Weiss beer, and as Girefle sat there in the glouning her thoughts wandered back to the days of a year agone, when every moment of her life was brimming over with joy, and every day seemed a rose-tinted dream from which one would never care to waken.

And now all was changed. Standing on the verge of womanhood and watching with wistful eyes for the mists of futurity to rise, her life should have been a happy one as Hope called to her with jouund voice and "Witness," said the judge. " you must answer the questions put to you."
"Land o' Goshen, jedge, hain't I bis doin' it?" Let the blamed cass fire away. I'm

her life should have been a happy one as Hope called to her with journal voice and Youth laughed back responses.

But instead of this the darksome shadows of doubt and fear fell ever on the pure, young face, and in the sweet, brown eyes there was a wisited, yearning, heaven-knows I-wishney-shoes-were-two-sizer-larger look that was pitiful in its sad beauty.

"You can not love me, George," she says, at last, "or you would not leave me in this manner-go away for two whole days, when you know that my heart will be breaking for you, and that every moment of your absence will be no age of for ture and doubt"—and coming to his side the places her arms about his reck in a shy, hesitating, don't-know whether-I-am afoot-or-horseback fashion that tolks its own sweet story of a love that will never fade or faller as long as the collateral securities hold out.

And so they and there, the moments passing by unheeded, the girl neatled in his arms secure in the deep trustfalness of an overpowering passion, while the man, smoothing her fair forchead gently, bends over hier now and then to kiss the rosy lips that are upturned to his, and then wenders, in a dreamy, idylic, North-side fashion tho was the last non that held a similiar situation on Girofie's staff, might have been.

Suddenly the end breaks the sitence—she

that held a similar situation on Grone's stan, might have been.

Suddenly the girl breaks the silonce—she had broken the man on the last matince day.

"And you must really go "" she ways; "really and truly ""

"Yes," he answers, "when daty calls we must obey, and I have selden known duty to call on the poorest hand."

"But I can not let you go," she says, passionately. "It is ernel to test my love so

sionatoly. "It is cruel to test my love so sorely"—and, breaking down in a storm of sobs, she clings to him more closer than ever and then just as he fears for her reason, so terrible does the blow seem, the sobs that are making the lithe form quiver with anguish cease, and Geroffe looks up to him with a happy smile upon her face. "I will be brave," she says, "but you must make me one promise; a boly, esered promise; that

"Why, of course I will, swetcheart," he replies, gayly. "I promise you that, cheerfully. But, why do you make such a strange request?"

"Because," she says, in those low, mellow tones that would lure a man through inferno or to Harvard junction, "I have a large throlling busion."—Chicago Technic.

"Do you know the prisoner well ?" asked

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MELLIS.

TAIL OF LEE

"Took many a drink with him at the bar."

"Answer my question, sir," yelled the law-er. "How long have you known the prison-

"From two feet up to five feet ien inches,"
"Will the Cenrt make the
"I have, jedge," said the witness, anticipating the lawyer: "I have answered the question. I knowed the prisoner when he was a boy two feet long and a man five feet Stationers and News Dealers, Hewalian Gazette Block, 27 Merchant St.

### STATIONERY, AMONG WHICH MAY BE FOUND

"It's a fac', jedge; I'm under my oath,"
persisted the witness.
The lawyer arcse, placed both hands on the
table in front of him, spread his legs apart,
examel his body over the table, and said; "Will
you tell the Court what you know about this "That ain't bis maso," replied the wliness.
"What sin't his name?"

INTESTANDS: Barkers' Small, Benkers' Small, Benkers' Intertworther Intertworther Small, 1975 "You did, You wanted to know what I can be determined to know about this Case. His marse's Smith."
"Your honor," howled the lawyer, pulling CARTER'S Combined Copying & Writing to Garte, what and is not a winter that the contract of the co

IXAK:

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Fabor's Pencils and monuted: "Then," said the lawyer, "don't beat about "Never," promptly responded the witness.
"What! Weren't you summound here as a

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# "Now, sir, did you ever see the prisoner at the bar?" J.M.OAT, JR. & CO., Another Invoice of New Goods



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one promise; a boy, sacred promise; a coy, sacred promise; a way not absolve you from."
"I will do it gladly, my practions one," he murmurs. "What is the promise?"
"You must promise," she says, "to lend

KNOWLES'

THE UNDERSIGNED HAVE JUST.

his hair our by the roots, "will you make this man answer?"

the bush any more. You and this prisoner have been friends."

"Stang down!" yelled the lawyer in die

"Shand dawn." I'll sit down, or stand up."
"Sherill, remove that man from the box."
Witness retires, mattering, "Well, if he aint the thick-headedest cass I ever had eyes

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a Western attorney. "Never knew him sick," replied the wit-

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It is idle, no doubt, to speculate at present upon the whence and the whither of the epidemic of cholera reported from Egypt. As becomes a place which has experienced 16 attacks of cholera (some of them severe) within the last 50 years, Mecca, upon the occurrence of an outbreak, ordinarily takes preceding the strength of the control of the severe of the outbreak. precedence among the gravely-suspected sources of disease. During the whole of last summer cholera prevailed to an unusual extent in Japan. There was also about the same time a very destructive epidemic raging in the

A History of Cholera Epidemics

Souloustel and Philippine archipelago.

For the last 190 years or more cholera has been treated as an "institution" of India, and the mortality bills there are on a large scale. The last notable outbreak in India was amongst an assemblage of pilgrins at Allahabad in January last year. The first historical academic, so far as Europe is concerned, commenced inwards the close of 1879. historical academic, so far as Europe is con-cerned, commenced towards the close of 1820. Cholera then reappeared in Persia, and, gain-ing a footing in the Caucasian provinces bordering upon the Caspian, it entered Russia in Europe. The capitals, old and new, and other parts of the great empire came under the scourge. Grave alarm spread over Europe, where the dread disease and put itself in evidence for the first time. It maked from other parts of the great empire came under the securge. Grave nlarm spread over Europe, where the dread disease had put itself in evidence for the first time. It passed from Russia to Austria, Hungary, and Germany, the victims in the latter country alone numbering more then 200,000. Upon the 22nd of October, 1831, it was trought in a ship from Germany to Sunderland; on February 6, 1832; it appeared in Edinburgh, and on February 13 in Rotherhithe and Limehouse, and on March 13th it was reported from Dublin, and during the year it prevailed extensively throughout almost the entire kingdom. The exact numbers are unknown, as there was then no registration of deaths, but the deaths of 52,547 person were reported through various sources to the Board of Health. France, as in Hungary, the people, being suspicious of occult poisoning, were "excited to madness and murder." From France the cholera crossed the Atlantic, and spread through North and Central America. From Germany it had previously travelled into Torkey. A little while atterwards it pressented itself in Arabia, Egypt, and the Nile district, and it was general through both the deaths in Paris numbered 119. On June 11 the General Board of Health in England reported that since the latter end of March the disease had broken out in twelve different parts of the metropolise, in 21 towns in Esogland and Wales, and 17 towns in Esociand and Wales, and 17 towns in Esoc Up to this time there has been in this county about 7000 deaths out of 15,500 attacks. Darring the week ending September 15 the deaths in London were 3183, the ordinary average than being 1008. By order of the Queen, the then being 1008. By order of the Queen, the following day, Sanday, prayers were offered up in all the churches for the removal of the securing. The number of deaths from cholera from June 17 to October 2 in London alone

from June 17 to October 2 in London alone was 13,161. The sickness disappeared in the middle of October. Out of a population of 17,564, 536 in this country 53,293 died of cholera, and 18,887 of diarricea.

England has had experience of four epidemics of Asiatic cholera. The two remaining outbreaks of which we have to speak were much milder in character than those already described. On September 4, 1853, the disorder again broke out with groat severity in Newcastle, and North Shields and other adioining towns suffered greatly. In July. ming outbreaks of which we have to speak were much milder in character than the work much milder in character than the call and the milder of the material of the milder o

ATHLETIC ASSOCIATION! THE GYMNASIUM OF THE HO-A nomin Atheric Association is now open for the new of members every day (Samiany excepted) at 7.9. in Hundays and Thursdays for isdies, and Tuesdays Fridays and Saturdays for gestionen Instructions with the given such evening in the various ranking of gymnastics. S. B. DOLE, Preside

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