Mens Tan Prospecting Boots:
Made of Viscol Calf

TWO SOLES
RE-ENFORCED SHANK
BLUCHER FRONT
17 Inch High Leg

PRICE
**$6.50**
A PAIR

**McInerny Shoe Store**
FORT STREET



**Time Now**

**To put in a new Gas Range**

Don't let it go until after housecleaning; or until the first really warm spell surprises you into joining the "waiting list."

Early orders mean prompt work.

Gas Ranges and Water Heaters sold by dealers and

**HONOLULU GAS CO.**



The New Policies of

**THE MUTUAL LIFE INSURANCE CO.,**

OF NEW YORK

Have been carefully drawn so as to avoid as far as possible the use of unnecessary technical terms. The agreements and privileges are clearly and precisely stated, and the contract may be easily understood by its possessor.

They are the best of life insurance contracts and are issued by the BEST of all the companies in the world.

LIMITED PAYMENT LIFE POLICY.

By the terms of this contract the amount of the insurance is payable upon the death of the insured, and the premiums are payable during a limited number of years—twenty, fifteen or ten years.

The Limited Payment Life Policy is in many respects and for a large class of insurers a most desirable contract, providing as it does that the premiums shall all be paid in the early and productive years of life, thus the policy becomes fully paid-up for the whole amount in a fixed number of years. Dividends are payable annually, or at the end of 5, 10, 15 or 20 years.

HOW MUCH WILL IT COST?

Between the ages of 25 and 31 years, inclusive, six to seven cents a day will be the "first cost" of $1000 good life insurance.

Between the ages of 32 and 52 years, seven to fifteen cents a day.

Between the ages of 53 and 65 years, sixteen to twenty-nine cents a day.

Is there any healthy man or woman in America at work for wages who can not afford this "first cost" of a good $1000 policy in the best and strongest company on earth?

A little self-denial in small things—pleasant things, perhaps, but unnecessary things—will pay the bill easily.

Different forms of policies cost various prices.

OUR TWENTY-YEAR DISTRIBUTION POLICY on continuous life and limited payment plans affords the maximum of security at the minimum of cost;

OUR GUARANTEED INCOME POLICY provides a guaranteed income, secure investment, and absolute protection;

OUR ENDOWMENT POLICY provides a certain guaranteed sum, payable with profits at a fixed time;

OUR 4 AND 5 PER CENT. BONDS furnish the best and most effective forms of indemnity and fixed annual income to survivors;

OUR CONTINUOUS INSTALMENT POLICY so adjusts the payment of the amount insured as to create a fixed income during the life of the beneficiary;

OUR ANNUITY POLICIES offer an excellent opportunity for persons to obtain a high rate of interest on their capital for the remainder of life; an income safe beyond mishap. This form of investment is particularly recommended to those who desire to make provision for declining years, and to be free from business cares.

We have prices to fit all known wants. All we want to know is what you want. If you do not know, tell us enough of your condition and surroundings and we can suggest the policy best suited to your purpose.

Rates and guarantees cheerfully furnished on application.

**W. A. WANN**

DISTRICT SUPERINTENDENT, ..OFFICE 932 AND 938 FORT ST. HONOLULU.


# KEALIA ELECTRICTY

## UNIQUE PUMPING PLANT DESCRIBED BY BUILDERS

### THE VARIABLE SPEED OF WATER WHEELS AND VARIABLE VOLTAGE—UTILIZE ALL THE WATER POWER.

A recent issue of the Engineering News contains the following regarding the electric plant to be installed at Kealia, Kauai:

A unique pumping plant for an irrigation system at Kealia, in the Island of Kauai, of the Hawaiian group, is being supplied to the Makee Sugar Co. (Mr. Z. S. Spalding, president,) by the Allis-Chambers Co., of Milwaukee, Wis. Some information about the arrangement of the plant has been furnished us by the makers, and is summarized in the following. As will be observed, the machinery of the plant is remarkably interesting, but unfortunately no details are given, so that the operation of the plant can be only partially understood.

The remarkable features of the plant are: (1) the use of variable speed water wheels, and (2) electric transmission at variable voltage and variable frequency, with constant current. The plant is designed to utilize fully, at all times, the available water power, by adjusting the load to suit, and yet preserving high efficiency of operation. The arrangement used accomplishes this control of the load wholly from the generating station, without relays or other remote controlled mechanism, but solely by the variation of line voltage and frequency. The total power of the plant is small, only 300 KW., and the distance of transmission is only five miles.

The problem to be solved in this irrigation project was to utilize as fully as possible a small but variable flow of water, under a high constant head, for pumping irrigating water from an abundant underground supply at a distance from the source of power. The heads at both power and pump ends being constant, the amount of pumpage should vary in direct ration to the flower of power water. With a reciprocating pump, as was here adopted (presumably for best efficiency), the pumpage varies with the speed, and the requirement therefore was to vary the speed of the motor in direct proportion to its load, without material reduction of efficiency of the motor. At the power-generating end, on the other hand, the governing requirement was that the peripheral speed of the water-wheel should remain constant, since with constant spouting velocity, due to a water-supply of constant head, the efficient peripheral speed of the wheel is fixed. The electric generator would then have to be of such nature as to deliver variable power, in proportion to available supply, with unchanged peripheral speed of water wheel.

This latter part of the problem was solved by providing a water wheel of special design, having six rings of buckets on different diameters, so that with constant buck speed six different speeds of revolution are obtained. The generator, coupled directly with the water wheel, has an output varying directly with the speed. It is a Bullock alternating current generator supplied with a constant magnetizing current from a separate exciter. The voltage produced by the generator, and its frequency, will therefore vary directly with the speed of revolution. The current generated and sent out over the transmission line is substantially constant.

The generator is rated at 300 KW., and produces three-phase current whose frequency is 60 cycles per second at the (normal) speed of 450 r. p. m. As already noted, it runs at widely different speeds, depending on the available water supply, and its voltage and frequency increase or decrease as the speed increases or decreases. The exciter is an 8-KW. direct current dynamo, mounted on the generator shaft and therefore subject to the same variations in speed as the generator. An automatic regulator serves to maintain the voltage of the exciter constant at all speeds, so that the generator fields will be excited to constant strength. A manual field regulator, for emergency use only, is also installed.

The receiving end of the plant, five miles from the power station, comprises only one unit, a three-phase induction motor rope belted to a Riedler pump. The motor is rated at 225 HP. The pump works against a gross head of 250 ft. and gives a maximum delivery of 2800 gals. per min.; its speed at this output is 116 r. p. m. The pump is fitted with mechanically operated valves, and is by-passed for starting.

The makers state that the pump will discharge 1750 gals. per min. against 250 ft. gross head when the water wheel receives 5 cu. ft. per sec. at 400 ft. head. The total efficiency of the plant, on this basis, is 48% from water to water.

A synchronous instead of an induction motor was at first proposed to drive the pump, but this would have required a 50-HP. motor for starting, and also an exciter, controllers and apparatus for throwing the motors in and out, in place of controlling apparatus, merely. The induction motor will be as efficient as a synchronous motor, simpler and cheaper in construction, and more reliable in operation, besides requiring less attention day by day.

# HONOLULU STOCK EXCHANGE

HONOLULU, March 23, 1906.

| NAME OF STOCK | Capital Paid Up | Par Val. | Bid | Asked |
|---|---|---|---|---|
| MERCANTILE | | | | |
| C Brewer & Co | 1,000,000 | 100 | | 405 |
| SUGAR | | | | |
| Ewa Plantation Co | 5,000,000 | 30 | 34 1-2 | 34 1-4 |
| Hawaiian Agricultur'l Co | 1,000,000 | 100 | | 115 |
| Haw Com & Sugar Co | 8,319,750 | 100 | 84 1-2 | 85 |
| Hawaiian Sugar Co | 2,000,000 | 20 | 34 | |
| Honomu Sugar Co | 750,000 | 100 | | 13 1-2 |
| Honokaa Sugar Co | 2,000,000 | 20 | 13 1-4 | 13 1-2 |
| Hutchinson Sugar Co | 500,000 | 100 | 75 | 195 |
| Kahuku Plantation Co | 500,000 | 20 | 22 1-2 | |
| Kihei Plantation Co Ltd | 2,500,000 | 50 | 8 | |
| Kipahulu Sugar Co | 160,000 | 100 | | 90 |
| Koloa Sugar Co | 500,000 | 100 | | 150 |
| McBryde Sugar Co | 5,000,000 | 30 | 5 3-4 | 5 1-2 |
| Oahu Sugar Co | 2,500,000 | 100 | | 100 |
| Onomea Sugar Co | 1,000,000 | 20 | 18 5-8 | |
| Ookala Sugar Plant Co | 500,000 | 20 | 3 1-2 | |
| Olaa Sugar Co Ltd | 5,000,000 | 20 | 3 3-4 | 3 7-8 |
| Olowalu Co | 150,000 | 100 | 80 | 85 |
| Paauhau Sugar Plant Co | 3,000,000 | 20 | 19 1-2 | |
| Pacific Sugar Mill | 500,000 | 100 | | 210 |
| Paia Plantation Co | 750,000 | 100 | | |
| Pepeekeo Sugar Co | 750,000 | 100 | | 245 |
| Pioneer Mill Co | 2,750,000 | 100 | 215 | |
| Waialua Agricultural Co | 4,500,000 | 100 | 59 1-2 | 60 |
| Wailuku Sugar Co | 900,000 | 100 | | 275 |
| Wailuku Sugar Co Scr | | | | |
| Waimanalo Sugar Co | 498,000 | 100 | 155 | |
| Waialua Mill Co | | | 60 | |
| MISCELLANEOUS | | | | |
| Inter-Island Steam N Co | 500,000 | 100 | 111 1-2 | 123 |
| Hawaiian Electric Co | 600,000 | 100 | 120 | |
| Hon R T & L Co Pfd | 500,000 | | 108 1-2 | |
| Hon R T & L Co Com | 1,150,000 | 100 | 68 1-2 | 69 |
| Mutual Telephone Co | 150,000 | 10 | 9 | |
| Oahu R & L Co | 4,000,000 | 100 | 92 1-2 | 97 1-2 |
| Hilo Railroad Co | 1,000,000 | 100 | | |
| Hon. B. & M. Co | | | 85 | 85 1-4 |
| BONDS | | | | |
| Haw Ter 4 p c (Fire Cl) | | | 100 | |
| Haw Ter 4½ p c | | | | |
| Haw Terr'l 4½ p c | | | | |
| Haw Gov 5 p c | | | 100 | |
| C & H Sugar Fact Co 6p c | | | | 103 |
| Haiku Sugar Co 6 p c | | | 103 | |
| Haw Com & Sug Co 5 p c | | | 105 | |
| Haw Sugar Co 6 p c | | | 102 1-2 | |
| Hilo R R Co Con 6 p c | | | | 80 |
| Hon R T & L Co 6 p c | | | 108 | |
| Kahuku Plant Co 6 p c | | | 100 | |
| Oahu R & L Co 6 p c | | | 104 1-2 | 105 1-2 |
| Oahu Sugar Co 6 p c | | | 100 | |
| Olaa Sugar Co 6 p c | | | | 97 |
| Paia Plant Co | | | 101 | 101 1-2 |
| Pioneer Mill Co 6 p c | | | 105 | 105 1-2 |
| Waialua Agric Co 6 p c | | | 100 | |
| McBryde | | | | 100 |

Sales—Between Boards: 500 Honokaa, $13; 25 Ewa, $24.50; 500 Honokaa, $12.75; 80 Olaa, $3; 36 Olaa, $3; 20 Haw. C. & S. Co., $84; 35 Waialua, $67.50; 50 Waialua, $67.50. Session: 25 Ewa, $24.50.

Latest sugar quotation, 3.5625 cents, or $71.25 per ton.

**SUGAR, 3.5625 cents**
**LONDON BEETS, 8s, 5 1-4d**


**Thielen & Williamson**
STOCK AND BOND BROKERS.
Members Hon. Stock and Bond Exchange.
LOANS NEGOTIATED.
912 FORT ST. TEL. MAIN 12.



**IF**

You buy or sell stocks or bonds,
You want to secure the best prices,
You want a loan on sugar securities,
You have real estate you wish to sell,
You have a house you wish to rent,
You have ANY business which needs the attention of active, hustling agents,

**See Thielen & Williamson About It**

AND IT WILL BE PUT THROUGH WITH A RUSH.
TEL. MAIN 21. 912 FORT ST.


# PAUOA RESIDENTS WANT HORSESHOE ROAD

The Third Precinct, Fourth District, Republican Club took up the matter of the improvement of Pauoa valley at a meeting held at the residence of Charles Booth last night.

The following petition adopted by the Pauoa and Pacific Heights Improvement Club was presented and read:

To the Board of Supervisors, County of Oahu.

Gentlemen: — We, the undersigned, residents, taxpayers and property owners in and around the District of Pauoa, Honolulu, hereby petition your Honorable Board to give this valley the attention it should be entitled to, in view of the fact that the adjacent valleys, namely, Kalihi and Manoa, have steadily gone ahead with extensive improvements and that large sums of money have been expended by the government for rights of way and materials are donated, thereby saving the government large sums of money.

Therefore, we respectfully urge your Honorable Board to take immediate steps for the extension of Fort street, and the making a horseshoe road in Pauoa valley (which is one mile from the wharf and is really Honolulu extended at the back) maps and surveys of which have been completed by the government.

This petition is signed by over two hundred residents and property owners.

A committee of three consisting of Messrs. Booth, Kerr and Neely was appointed to present the petition to the Board of Supervisors at its next regular meeting.

The Supervisors present, Messrs. Adams and Lucas, promised to give it the strongest support when it should be presented.

# ALAMEDA ARRIVES

The Oceanic liner Alameda, loaded down with freight and tourist passengers docked at the Company's wharf at noon today. The Alameda sighted several vessels but none that could be taken for the overdue bark R. P. Rithet, most of the sailing vessels being bound the other way. The Alameda sails for San Francisco on Wednesday and will carry a large return passenger list.

# LOCAL AND GENERAL

A Bulletin want ad. costs 15c per line for one insertion, or 30c a line for one week—a line is about six words big. An expenditure of 60 or 90 cents may easily do a Hundred Dollars' of work.

5000 PEOPLE READ THE BULLETIN WANT ADS. EVERY DAY!

Autos for hire at Ter Stables.

Two American-Hawaiian freighters are due next week.

The U. S. transport Sheridan is due from Manila next Monday.

After skating, take home an Oyster loaf from the Cobweb Cafe.

See "By Authority" column for school house proposal, this issue.

Hawaiian Tribe No. 1, Order of Red Men, meets this evening at 7:30.

Island jams and chutney made by Mrs. Kearns, 184 Hotel St. Blue 1411.

The next mail from San Francisco will be the steamer Korea, due next Thursday.

Neatly furnished rooms at the Popular. $1, $1.50 and $2 per week. 1243 Fort street.

The steamer Claudine takes mail and passengers for Laupahoehoe and Hilo this afternoon.

**Oahu Lodge, No 1, K. of P., will meet tonight at 7:30 o'clock in K. of P. Hall, King street.**

M. J. Bissell, the well known ship chandler and family, left on the Mauna Loa at noon today for Kailua.

F. B. McStocker has gone to take charge of Kahuku plantation during the absence of Andrew Adams.

The steamer Iwalani will sail with Japanese laborers off the Siberia for Kauai ports probably tomorrow.

COFFEE SHOP TALK
From Hilo will appear in
SATURDAY'S BULLETIN.

There will be no rehearsal of the Symphony Society this evening, owing to the indisposition of Leader Stockton.

Fresh Kahikinui beef, young veal and island chickens will arrive by the Kinau for the Raymond Ranch Market. Phone 464.

Tomorrow is the last day of Blom's special sale of high class laces. Such bargains have never before prevailed in Honolulu.

Grand Easter millinery opening at Sachs' Dry Goods Co., Monday, Tuesday and Wednesday. All ladies cordially invited.

**BREAKING INTO SCHOOL**

**Or a "Mystified Mother's" story of her attempts to gain education in Honolulu schools for her children. Every parent should read this statement that will appear in**

**SATURDAY'S BULLETIN.**

The county, under the direction of the Health Board, has recently completed cleaning out the pond at the head of Waiolama canal, by removing the accumulation of growth of water hyacintha, etc. The misdemeanor prisoners were employed on the work.—Hilo Tribune.

The Supreme Court this afternoon will take up the Higashi habeas corpus case on appeal by the Territory from Judge De Bolt's decision that a defendant charged with an offense involving a punishment of more than one year's imprisonment must be tried by a jury on an indictment.

The Supreme Court this morning heard argument by S. H. Derby and Attorney General Peters on the Cotton Bros. case, dwelling on the merits of the case and the legality of Judge Gear's decision, which he wrote in San Francisco. The argument will be completed early this afternoon.

The matter of the executors of the Jas. Campbell estate against the heirs, a bill for the construction of the will, came up before Judge Lindsay this morning and was extensively argued by the many counsel appearing in the case. Attorneys for the respondents, Peters, Watson and Dunne, were given ten days in which to file briefs.

If you are interested in amateur photography you should join the Kodak Correspondence School of the Eastman Kodak Co., Rochester, N. Y., a course in which carries students step by step through the various branches of the work, until they are capable of producing satisfactory negatives and prints, both from technical and artistic standpoints. It treats of both the technical and artistic side of photography, and appeals to all who are at all interested in the work. The school is open to all upon payment of two dollars, and blanks for filling in, together with full particulars, may be obtained from the Honolulu Photo Supply Co.

Water from an artesian well at Ostend which has been wasted for fifty years, has now been discovered to possess medicinal qualities similar to the waters of Vichy.

# BY AUTHORITY

SPECIAL WARNING NOTICE.

FIRES TO CLEAR LAND—WAIANAE VALLEY, OAHU.

Notice is hereby given that in accordance with Section VI of Act 71 of the Session Laws of 1905, it is forbidden to start fires for the burning of brush, dry grass, etc., for a period of six (6) months from date, unless the written permission of the District Fire Warden has been first obtained, for that portion of the land of Waianaekai, District of Waianae, Island of Oahu, lying above and mauka of the cane fields of the Waianae Plantation Company.

The law reads, "Such fires shall not be started during a heavy wind or without sufficient help present to control the same, and the fire shall be watched by the person setting the same, or by competent agents of his, until put out." The District Fire Warden is Mr. Fred. Meyer of Waianae.

RALPH S. HOSMER,
Superintendent of Forestry and Chief Fire Warden.
Honolulu, March 23, 1906.
3839-3t


Nothing adds so to domestic comfort as good beer. It braces a man for the day's work and cheers his hours of rest in the bosom of his family.

**PRIMO LAGER**

fills the bill in every respect and is essentially a household beer. It is absolutely pure and wonderfully wholesome. Order a case today.

Jewelry of every description.
We do it in a careful, painstaking and thorough manner.
We make a specialty of repairing fine watches.
If your costly timepiece is out of order bring it to us and we will treat it skillfully and scientifically for you.

**M. R. COUNTER**
LOVE BLOCK..... FORT STREET



**MACY WERNECKE DESKS**

Macy-Wernecke Roller Top Desks are undoubtedly the best desks made. They are manufactured of handsome, quartered golden oak and in construction and finish leave nothing to be desired. They are fitted with every modern convenience and possess many desirable features not found in other desks. The prices are moderate for such high-class goods.

**H. Hackfeld & Co.,**
LIMITED.
AGENTS.



**HAWAIIAN UKULELES**

are most delightful little musical instruments and make admirable souvenirs of the land in which they were made.

We have them in a variety of handsome woods and every one is guaranteed to be perfect in tone.

Ukuleles are easy to learn and play and may be made the means of passing many a pleasant hour.

**Hawaiian News Co.,**
Limited.
YOUNG BUILDING STORE.


The Weekly Edition of the Evening Bulletin gives a complete summary of the news of the day. For $1 a year.

Fine Job Printing at the Bulletin.


**RICHARD HUDNUT PREPARATIONS**
TO FURNISH THE TOILET TABLE

Violet Sec
Toilet Water
Extreme Violet
Perfume
Chrysis
Sachet Powder
Violette Suoerba
Face Powder
Eau de Quinine
Colorless, for the hair
Marvelous Cold Cream
For the skin
Violet Almond Meal
For the skin
Concrete Tincture Benzoin
For the skin
Extreme Violet Talcum
For the skin
Nailustre
For the finger nails
Perfecta
For Shampoo
Pure Olive Oil Soap

The RICHARD HUDNUT PERFUMES AND TOILET SPECIALTIES ARE SOLD BY

**Lewis & Co.,**
169 KING ST., HONOLULU, H. I.
Sole Agents for Hawaiian Islands.
TELEPHONE 240.


Owing to a change in the price of certain sizes of crushed rock, prices in future will be as follows: No. 1, $1.55 per cu. yd.; No. 2, $1.80 per cu. yd.; No. 3, $2.05 per cu. yd.; No. 4, $1.80 per cu. yd.

We wish to call attention to the fact that No. 4 has been reduced to practically the price of white sand, making it available for all kinds of concrete work, for which it is far superior to any other sand.

**Lord & Belser**


**DR. J. T. McDONALD,**

Office REMOVED to Rooms 21-24, the Alexander Young Building. Hours: 10-12; 2-4; 7-8. Residence, The Alexander Young Hotel. Telephone Call: "Young Hotel."


The Weekly Edition of the Evening Bulletin gives a complete summary of the news of the day. For $1 a year.


Before Buying
RUGS, STAIR CARPETS
or DOOR RUGS
we ask you to look at our Newest Goods
ALSO
**CURTAINS** in great variety
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