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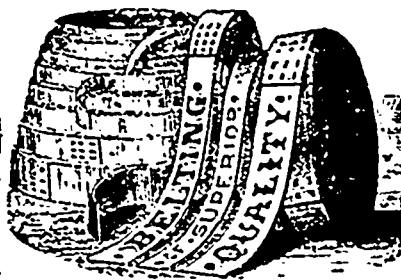
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AND

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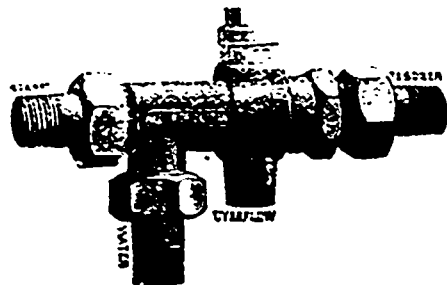
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for Feeding all kinds of Boilers, is the
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HALIFAX, N. S.

Manufacturers of and Dealers in

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COPPER PLATES, PLAIN & SILVERED, STEAM ENGINES,

PUMPS, STONE BREAKERS,

STAMP MILLS, ROTARY SAW MILLS

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RUBBER AND LEATHER BELTING,

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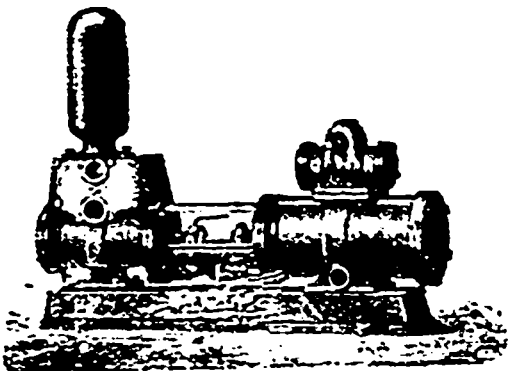
MACHINE OILS.

Drill Steel,

Picks,

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ETC., ETC.



AUSTEN BROTHERS,

HALIFAX, N. S.

MINING.

The gold mining outlook continues to brighten, and from all districts the reports are most encouraging. The introduction of the most approved methods of mining and the best of machinery have fairly revolutionized the business, and mines that were abandoned are now being worked at a profit. Capital is now being expended under the direction of skilled managers, and there seems to be a general awakening throughout the whole Province. No country in the world is richer in mineral wealth than Nova Scotia, and this is now being demonstrated by actual results.

OLDHAM.—Last week we recorded a yield from the Central Rawdon Mining Co. for the month of June of 517 ozs gold from about 100 tons of quartz, slate and alluvial crushed, now comes the Oldham Gold Mining Co. where the yield from the 23rd to the 30th of June, as will be seen by the official return, was \$75½ ozs. gold from 30½ tons of quartz crushed or about 2½ ozs per ton.

STEWIACKE VALLEY.—The conglomerate rock now being prospected near Brookfield Station has yielded under assay by Prof. Burwash, of Sackville, N. B., half an ounce of gold and two ounces of silver to the ton. The reef now being worked is fifty feet wide, and there are other reefs near by. Everything indicates the great value of the district in gold and silver. In addition there are large deposits of limonite, lead and silver, barytes and red hematite ore scattered through the valley, and now it is reported that coal has been discovered. When the Stewiacke Valley and Lansdowne Railway is completed it will prove a great mineral road, and bring into the market a number of properties that are not now being worked.

MANGANESE.—In our advertising columns will be found a notice inviting tenders for the famous Stephens' Manganese Mines of Tennycape. These mines were originally opened up by John Browne, M. E., and soon became noted for their large output of the very highest grade of manganese ore. They subsequently were purchased by Mr. Stephens and largely worked, and to-day are showing up richer than ever. Purchasers of manganese properties now have an exceptional opportunity of securing a fine mine, and should lose no time in making their tenders.

The following are the official gold returns so far received at the Mines Office for the month of June:

District.	Mill.	Qtz. Crushed.	Ozs. Gold.
Sherbrooke.....	Miners.....	30	2½
do.....	Aberdeen.....	98	10½
Salmon River.....	Dufferin.....	737	233
Oldham.....	Oldham G. M. Co.....	33	10
*Oldham.....	Oldham G. M. Co.....	30½	\$75½
Caribou.....	Herbert Dixon.....	34	22
Caribou.....	Moose River G. M. Co.....	182½	9½
†Caribou.....	Damas Touquoy.....	273	50½
Uniacke.....	Phoenix.....	170	37
S. Uniacke.....	Eastville.....	14	174½
Molega.....	Whiteburn G. M. Co.....	90	78½
Stormont.....	Rockland.....	32	28
Central Rawdon.....	Gould Northup Mill.....	155	132

*From June 23rd to 30th.

†Quartz and surface stuff.

EL CALLAO.—The returns of this famous Venezuelan gold mine for the year 1889, we are glad to observe, show an improvement upon the results of 1888, the output having amounted to 52,971 ounces that were sold for \$1,029,000, against \$1,008,000 in 1888, \$1,421,000 in 1887, and \$3,457,000 in 1885. The dividends paid in 1889 amounted to \$103,000, against \$25,700 in 1888, and \$295,000 in 1887. The quartz now assays an ounce of gold to the ton against ¾ of an ounce in 1888. This mine has now been worked nineteen years with an output aggregating \$24,450,000, out of which as much as \$9,560,000 has been paid to shareholders.—*Financial and Mining Record.*

A NEW FORM OF COAL WASHING MACHINE.—This machine is a modification of the ordinary piston or hydraulic jigger, having an arrangement for scraping the surface and removing the top of the washed layer of material under treatment. It consists of a rectangular sieve about 10 feet long and 3½ feet wide, fixed on a pyramidal hutch, having a plunger box attached to one of the long sides, and a continuous opening variable by adjustable slides for the discharge of the heavier waste on the other. The apertures in the sieve plate vary in size, the largest being nearest to the feed end. The piston, which is circular in form, and of much smaller area than the sieve plate, is a wooden disc moved by an eccentric, and communicates motion to the water in the hutch by a cushion of air confined above the water in the piston box. The eccentric is adjustable upon its shaft so as to allow a certain variation in the length of stroke of the plunger. A clack in the disc allows air to enter if a vacuum is formed below it on the return stroke by reason of the whole of the water not being returned, as in the case of washing very fine slack containing clay, which always absorbs a notable quantity of water.

The scraper frame (*adieu a polettes*), which is the essential novelty of the machine, is a harrow-like frame suspended by a system of jointed rods above the sieve plate, and the receiving motion from a cam acting upon the counterpoised arm of an angle lever, which gives a slow forward and quick return motion. The frame, which is somewhat larger than the sieve plate, is connected at one end with the slide closing the feeding hopper, and receives a