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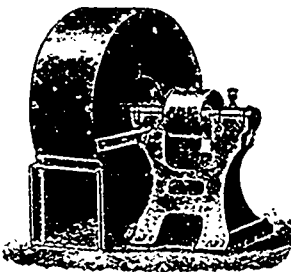
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Canadian Typewriter Exchange,
45 Adelaide St. East,
TORONTO.and paper, sewing machines with stands and
locomotives, portable engines the United
States also contributed from one-tenth to
one-third of the total importations.Among other necessary equipment for the
Commander-in-Chief of the Allied Forces in
China is a portable asbestos house, which
has been ordered by the German Govern-
ment, and supplied by the Calmon Asbestos
Rubber Works. The house is in sections
which are packed in a number of cases.
Everything is so arranged that the building
can with the greatest ease and speed be fixed
up and taken down for erection elsewhere as
required. The building contains seven large
and comfortably furnished rooms for the
use of the Count, his adjutant and servants.
The material used is an invention of the
Calmon Asbestos Rubber Works, to which
the name of asbestos slate has been given.
It is absolutely fire and waterproof, as hard
as slate, and yet capable of being nailed and
planed like wood shingles. It also possesses
the advantage of extraordinary lightness,
and being an equally good insulating ma-
terial against heat as against cold, constitutes
an also ideal material for light buildings.
The order was accepted for completion and
shipment in a fortnight and has been duly
executed.—Kuhlow's.A plant to work the Hoepfner wet process
for the extraction of copper has been erected
at Papenburg, Germany. It has a capacity
of a metric ton of refined copper daily. The
ore is first crushed in Grusonwerke ball mills
and leached with cupric chloride solutions.
The solution dissolves copper, lead, nickel
and silver, the cupric salt being reduced to
the cuprous state. After purification and
being freed from silver, the solution is
allowed to flow to a compartment with car-
bon anodes and copper cathodes. Chlorine
is liberated at the anodes regenerating the
cupric solution, which is returned to a fresh
charge of ore. It is claimed that ninety-one
per cent. of the contained copper was
obtained after four hours' treatment of Rio
Tinto ore containing 3.37 per cent. copper
and only three per cent. of the iron content
dissolved. By longer contact 98.5 per cent.
of the copper was extracted with only four
per cent. of the iron taken up. It is claimedmoreover, that one horse-power in twenty-
four hours will produce fifty-four kilo-
grammes of copper as against fifteen kilo-
grammes by the sulphate process.—Kuhlow's.The British Consul at Stuttgart states
that the increase in the price of petroleum
and the decrease in the price of calcium
carbide are gradually enabling the latter to
supplant petroleum as an illuminant. At
the end of 1899 about 170,000 jets of acety-
lene were installed in Germany, which—
estimating the illuminating capacity of the
acetylene flame at forty normal candle-
power—gives a total of 6,800,800 candles.
This means that acetylene has been substi-
tuted for 180,000 petroleum flames, 21,000
oil-gas jets, and about 3,500 jets of other
illuminants, without taking into considera-
tion the large number of acetylene oil-gas
jets used so extensively at present by the
Prussian railways, and to which, in connec-
tion with the development of the acetylene
industry, reference will be made further
down. The importance of the further sub-
stitution of acetylene for petroleum may be
gauged from the fact that Germany, for
many years has paid annually about £5,000,-
000 to America for petroleum, which sum
has latterly risen considerably owing to the
advance in the price of petroleum. The
acetylene industry is a purely German
industry, carbide being manufactured in
the country, and although a large amount is
imported from Switzerland, Norway and
Sweden, these works have been built with
German capital and are directed by German
engineers.The United States Vice-Consul at Chem-
nitz reports that a member of the board of
general directors of the Royal Saxon Rail-
ways has invented a new device for the
consumption of smoke given off by loco-
motives. He claims that it is almost perfect,
whether the locomotive is moving or stand-
ing still. Certain technical papers say that
this device has been added to four loco-
motives in Chemnitz, and the engineers
state that they are much pleased therewith.
A locomotive using this new invention and
being worked to its utmost capacity saves
in one month 28,600 pounds of coal. To
equip a locomotive with this device costs**PLANING MILL** **STEEL PLATE
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