

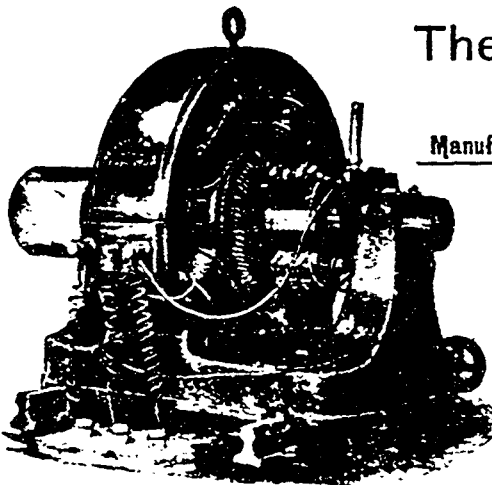
energy by so doing. The hot gases escaping from the smokestack of a steam-boiler or the high temperature of the exhaust of a gas-engine is entirely obviated by my system of motor, and it will exceed, in point of economy, more than fifty per cent. of the best steam-engine practice.

"In order that the operation may be thoroughly understood, I may state that atmospheric air is charged with carbonaceous matter. This mixture is ignited by an electric current, producing expansion and a high temperature. At this instant it is brought into contact with water, broken into minute proportions, the water being converted into vapor instantaneously, which reduces the temperature and increases the pressure, which acts upon a piston and is converted into mechanical power. The whole operation is automatic and continuous, and we have practically a steam-engine without a boiler or exhaust steam."

The following additional details are quoted from another part of the interview:

"I cannot go into the structural details concerning the motor, as I have not yet secured patents. I have designed the machine for operating my carbonizing machinery, of which I expect to install plants throughout the country. The motor may be used for many other purposes, such as operating street-cars, boats, supplying electric light, or pumping water for private residences, and as a motive power for vehicles; in fact, in any place where a powerful motor of light weight is required. A ten horse-power motor, as constructed for a carriage or boat, would not exceed 125 pounds in weight, and the two horse power machine I now have in operation weighs forty-six pounds, but in this I have not attempted to reduce the weight. The motor operates at a moment's notice by connecting a lever with a key, which puts an electric battery in circuit, and

it is as easily controlled as a steam engine; in fact, when once started, it requires no further attention."



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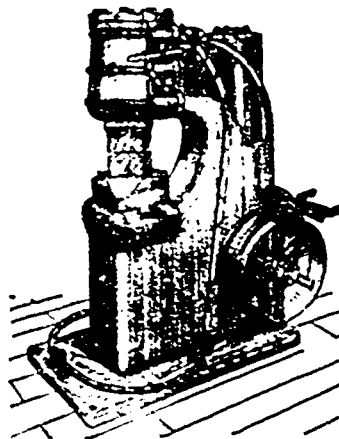
The Yeakley Vacuum Hammer.

Canadian Patent November 2, 1897.

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The future of the Canadian iron industry is very promising. The Liberal Government has wisely decided to accept the Conservative policy of encouraging the iron industry. At the last session of Parliament Mr. Fielding, Minister of Finance, with the hearty approval of Sir Charles Tupper, announced that the period for which bounties would be granted would be extended until the end of the year 1907. By that time we believe that Canada will have a number of great iron and steel making establishments of which the Canadian people will have reason to be proud. The greatest of them is likely to be that of the Dominion Iron and Steel Company, at Sydney, Nova Scotia.—Montreal Star.

It is stated in a recent bulletin of the French Chamber of Commerce in Montreal that the caviar made by the Americans from the roe of sturgeon caught at the mouth of the River Delaware is inferior to the article made by Canadians from sturgeon roe taken on the great lakes Huron, Erie, Ontario, and on Lake Winnipeg. There is a caviar factory on the Lake of the Woods, which turns out about 20,000 pounds per year, valued at \$20,000. There is an establishment of the kind at Norman, on the Lake of the Woods.

Port Colborne, Ont., will grant a bonus of \$25,000 towards a blast furnace if it is proposed to erect at that place, to cost \$300,000.

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