

— Kossuth has nearly ready for publication three additional volumes of his memoirs. They are said to contain, among other things, his remarks upon the policy of Napoleon III. toward the Vienna Court, and upon the endeavors of the Pope to retain his secular power.

— "Midnight Talks at the Club" is the title of a volume shortly to be published by Fords, Howard, & Hulbert. It is made up chiefly of a series of articles under the same title from the Sunday issues of the *New York Times*, which excited a good deal of interest when they first appeared, and of an article entitled "A Protest against Dogma," by the same author, Amos K. Fiske, which attracted much attention in a recent number of *The Forum*. These papers contain free and candid discussions of various religious, social, political, and moral questions that interest thinking people of the present day.

INDUSTRIAL NOTES.

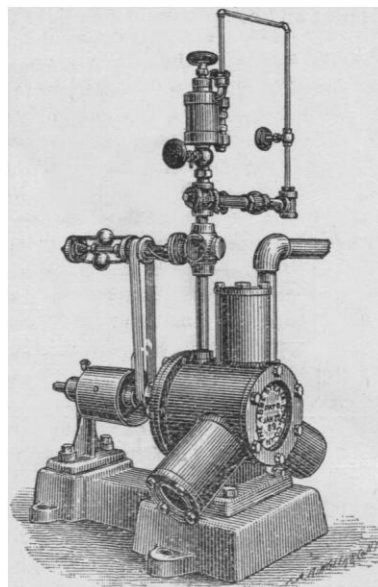
The Abbe High-Speed Steam-Engine.

A STEAM-ENGINE of novel design is shown in the accompanying illustrations. It is of the three cylinder type, and is being introduced to the notice of power users by the Abbe Steam Engine Company of this city. The cylinders are arranged around a central crank-chamber, equidistant from each other. The pistons, which are single-acting, are connected direct to the crank-pin, the piston itself acting as a cross-head, and a simple device being provided for taking up all wear or lost motion at the crank-pin and connecting-rod.

The inner bearing of the crank-shaft is located in a partition separating the crank-chamber from the valve-chamber. In this partition are also located the steam and exhaust passages leading to and from the cylinders. The valve, which revolves with the crank-shaft, is at the back of this partition, being so balanced

that there is just sufficient excess of steam-pressure on one side to keep it up to its seat without undue friction.

To provide for thorough lubrication of all working parts in the crank-chamber, a quantity of oil is placed in the lower part of the chamber, each revolution of the crank distributing it to all



parts. The valve and valve-chamber are lubricated in the usual manner by oil carried in by the steam.

As the engine has no dead centre, it can be started with the crank in any position; and as the cylinders take steam only at one end, the connecting-rods are always in compression; so that,



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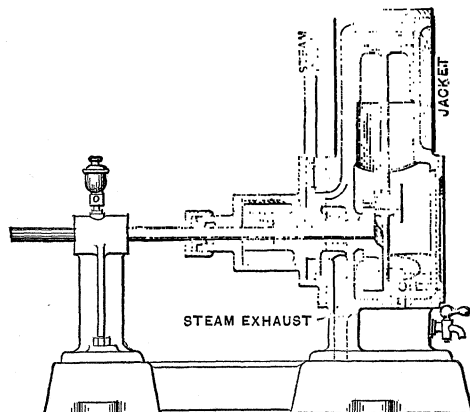


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even at the highest speeds, there can be no sudden irregularities of pressure or pounding upon the crank-pin. The working parts being incased, they are exempt from the extra wear induced by the accumulation and grinding-in of dust and dirt.

The engine of this type now on exhibition at the company's office in this city is neat and compact, and very light for the amount



of power claimed. It should be admirably adapted for running dynamos, ventilating-fans, hoisting-engines, and similar machinery requiring high speed; and for boat and yacht engines it should find a wide application, a special valve-gear for reversing being provided, making it available for that purpose.

The Loomis Electric System.

THE Eureka Electric Company (Loomis system), whose ingenious self-regulating system of electric lighting was described and illustrated in these columns about a year ago, have installed many important plants during the past few months. One of their most

recent contracts is one for an installation of two thousand incandescent and several low-tension arc lamps for a large hotel at Tampa, Fla. A notable feature of this installation is the fact that current for both kinds of lamps will be supplied from the same dynamos. Another feature of this installation is that each bedroom in the hotel is furnished with a special incandescent night-lamp, which can be kept burning all night, and at any degree of brilliancy desired by the occupant of the room.

The engines, boilers, and dynamos are placed in a separate building situated some distance from the hotel. The boilers have a total capacity of 250 horse-power, and supply steam to two automatic high-speed engines of 110 horse-power each. These furnish power for four dynamos of five hundred lights each. The main switch is of special design, and controls all the lights, both arc and incandescent. It is so constructed that the dynamos can be run singly, in pairs, or in multiple, any desired combination being made in a moment. Four main circuits run from the dynamo building to the hotel through an underground conduit. Each circuit is provided with an ammeter and a ground detector, and each is connected, by a compound switch, with a voltmeter; so that the electro-motive force of all, or of any one, or of any combination of dynamos, may be quickly taken. As a whole, the installation is expected to be the principal electrical feature of Tampa.

The Eureka Company have also installed a plant at Duncansville, Penn., one-half the output of the dynamos being used for arc lamps, the other for incandescent. They have also recently put in plants, incandescent or mixed, in Hollidaysburg, Penn.; Wakefield, Mass.; Paterson, N.J.; Bloomfield, N.J.; Marcellus, N.Y.; West New York, N.J.; Portland, Ore.; Little Falls, N.Y.; Chester, Penn.; Pinkney, Tenn.; and quite a number of large plants in important business buildings in this city. The growth of their business has been so rapid and constant, that the company have been compelled to remove their factory from this city to larger and more convenient quarters in Brooklyn.

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