HAHL'S PNEUMATIC CLOCK.

The Pneumatic (Synchronous) Clock Co, parts of the building according to necessity, and steam systems are subject to the same all connected with the master clock by interferences. pneumatic tubes. One master clock can The free air system here alluded to operate any number of secondary clocks entirely dispenses with the use of other throughout the building, and connection can elements, and by means of a simple con-be made with neighboring buildings. The trivance insures uniform time under all con-

Regarding the advantages of this system, the makers direct attention to the fact that clocks impelled by electricity are subject to The Findmatte (Synchronous) clock Co, clocks impleted by orectivity are subject to Chicago, are just putting on the market an frequent disturbances, as batteries often exceedingly clover time-keeping device in give out, wires become crossed, lightning which the problem of reliable and uniform and the elements create disturbances, and in which the problem of remains and uniform and the elements create disturbances, and in time is most satisfactorily solved. The many cases the energy is derived from a system includes a master clock that may be motor or steam engine. In hydro-pneumatic located in any desired place in a building, systems the supply of water often gives out, and a simple contrivance of dials that may pipes burst, and reliance is had for power and a simple contrivance of dials that may pipes burst, and reliance is had for power be placed in as many different rooms or upon engine or pump in constant motion, parts of the building according to necessity, and steam systems are subject to the same

be made with neighboring buildings. The trivance insures uniform time under all con-master clock is run by gravity, sending an ditions of temperature, atmospheric pressure absolutely uniform impulse of air every and even leaky pipes. The master clock minute through a system of pipes to all the embodies a bellows or air chamber which at subordinate clocks connected thereto, the one muute intervals alternately compress hands of all of them moving in perfect and expand. The subordinate clocks are connected by suitable piping at any desired

distance from the master clock, the hands of which move one minute by the compression of the bellows, and the next minute by the expansion. The system requires no skilled mechanic,

electrician or engineer to operate it, all the attention required being the simple act of winding up once a week. The subordinate winding up once a week. The subordinate clocks have no springs or weights, require no winding, setting or repairing; are not disturbed by jarring of the wall and are not affected by changes of temperature or atmos-pheric conditions. We are informed that in one building in Chicago in which this system is installed the answers here the system is installed, the aggregate length of piping through which air is impelled by the master clock to all the subsidiary clocks, is over 12,000 feet.

The uses to which the system can be put are almost innumerable. In schools a programme attachment is connected; in hospitals a striking or alarm attachment; in hotels alarms are placed in each bed room; in factories a time recorder at watchman's stations, also employers time recorder-in fact the system is adapted to every field where accuracy and simplicity in time service

Further information can be obtained by addressing The Pneumstic Clock Co., Chamber of Commerce Building, Chicago, Ill.

How far the sales of the Goldie & Mc-Culloch Co., of Galt, Ont., extend may be seen from the sales of two Ideal engines this year. One went to St. Francis Navier College, Antigonish, N.S., the other to Wm. Cown & Co., Prince Albert, N.W.T. They have also sold three in Ontario.

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