

**ELECTRICITY EXTRAORDINARY.**

At Great Falls, Mont., which has become the largest wool shipping point in the north-west, United States, great difficulty has often been experienced in disposing within a given time of the shearing of large shipments of sheep. This difficulty has now been amply met by the use of electricity. The trolley current has been utilized to drive the shearing machines. The installation of the simplest possible description. A street railway motor was taken from one of the cars, and the armature pinion was replaced by a small pulley, which was belted to the main overhead shaft. So little power was needed that two rheostats had to be put in the circuit to keep the sheep down. The foreman of the shearers, after only five minutes' instruction, took full charge of the motor, giving it all the necessary attention in oiling, starting and stopping. After the machines were started, the maintaining of a uniform speed was easy, and within half an hour the twenty machines were ripping off the fleeces at a rate which broke the record. The power was transmitted to the shears, which resemble horse clippers in their operation, through universal joints. In three weeks 16,184 sheep were sheared by the one motor, averaging nearly 100 sheep per day for each machine.

**"PAPYROLITH" FLOORS.**

Under the name of "papyrolith," a new flooring material has been put on the market. Papyrolith, or paper stone, is a description of papier mache, hardened and toughened for its special application. It is a chemical combination of vegetable fiber, paper pulp

and minerals, from which are produced a very tough material which has the advantages of the hardest wood and of stone, without the drawbacks of shrinkage of the one, and extreme coldness and inelasticity of the other. It is a non-conductor and impervious to water. It will not swell or dry up, and neither shrinks nor twists, as other substances of the same class will. It is laid in a liquid state and is like a thick paste or cement, so that on a sloping floor it will take the incline required and present a smooth face without joint or crack. For this reason it is well adapted for hospitals and school-rooms, as it provides no room in which hurtful bacteria germs can find lodgment. It will take any color, or any combination of colors desired. It is claimed to be fire-proof, and from its elasticity has an agreeable feel to the tread, and deadens sound considerably. Being unaffected by vibration, it is suitable for factories or work rooms where engine power is used. It is manufactured as a powder, and after being brought into the semi-liquid state by the addition of water, is laid, like cement, on a solid foundation of brick, concrete or wood. A coarse and a fine layer are used, the first being allowed to lie about twenty-four hours before the top dressing is spread and smoothed off with a trowel. The two applications are about half an inch thick when thoroughly beaten down.

Messrs. Bonney and Kennatt, who were formerly with the Eddy Co. in Hull, have established a paper mill in the big iron building just south of the street railway power house in Ottawa, Ont. They will employ about thirty hands.

## The Pulsometer

### STEAM PUMP

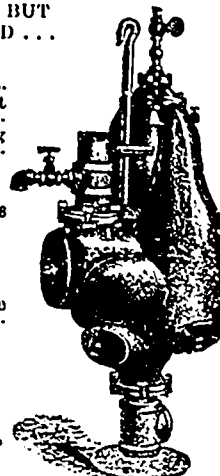
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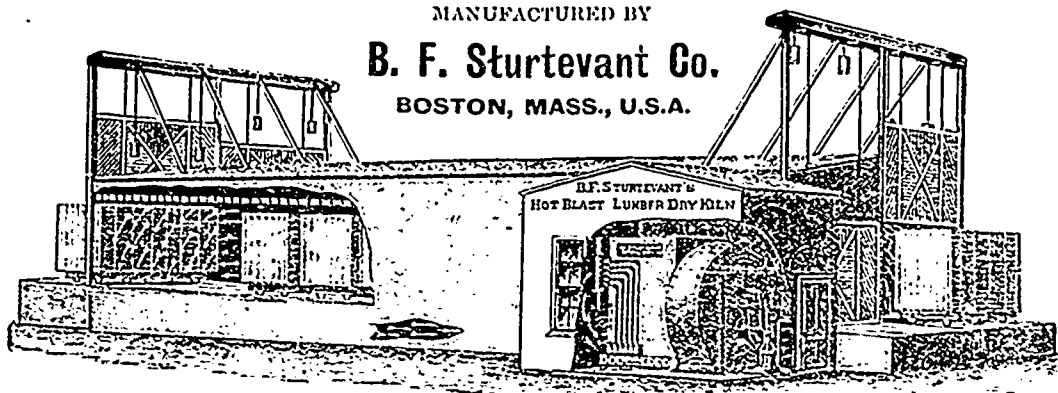
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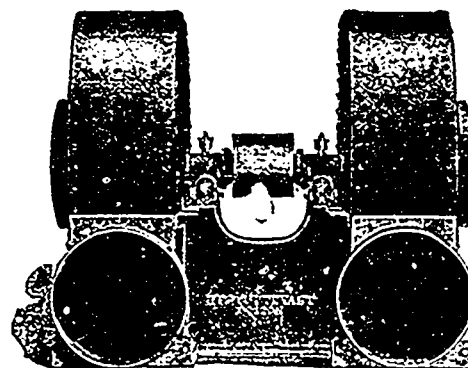
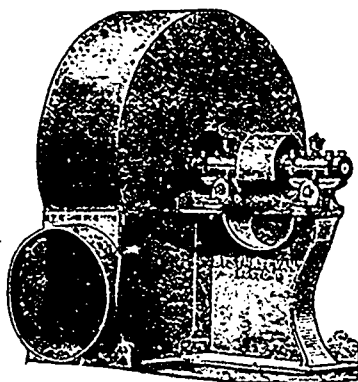
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