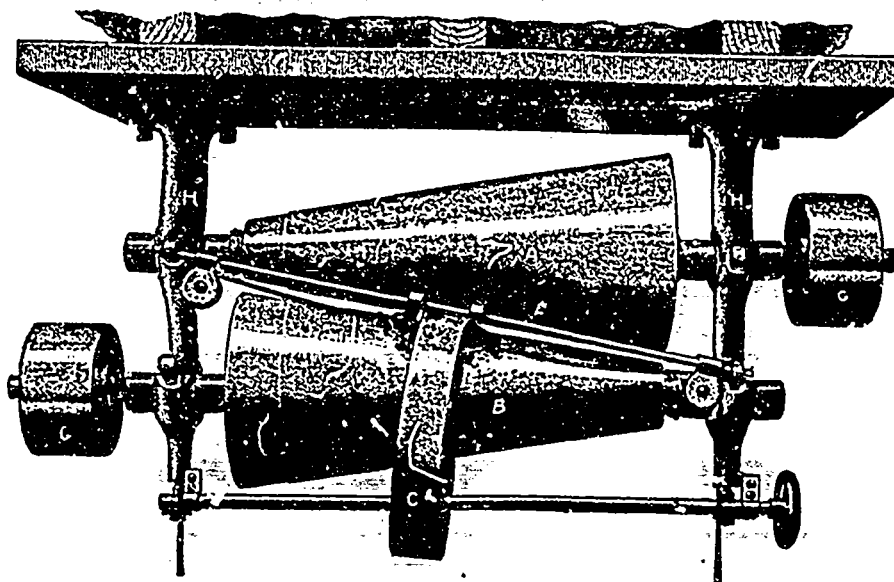


THE EVANS FRICTION CONE.

The accompanying illustration is of the Evans Friction Cone device for graduating speed of shafting. The device is simple and is operated upon the principle of frictional gearing. Motion being desired, the ring of leather is moved endwise by a suitable shipping arrangement, and by reason of the ring filling up the space between the cone pulleys, motion is imparted from the driving to the driven cone pulley, and so on to the machinery. By reversing the shipper, and thereby throwing the leather ring into its first position upon the parallel portion of the cones, the machine is quickly brought to a state of rest. Cylindrical pulleys and drums are also operated by this device by suitable motions, whereby the pulleys are moved to or from each other, the leather ring imparting motion to the lower pulley from the upper one.

The manufacturers claim that this system is specially adapted for driving dynamos. Included in these advantages are—There is no loss of room by reason of long lines of belting; all of the space is available, more than double the number of dynamos can be put in the same space than by ordinary belting. In the erection of new stations or the increase of old, a very large saving is realized. There is no slip, consequently there is less loss of power in transmission, and a steadier light is obtained. There is also less

pressure on the bearings than by ordinary beltings, for the same amount of power. There is great saving in belts and pulleys; although these driving pulleys are heavier than ordinary pulleys, there is a saving in cost, as only one-half the number is required, for each pulley can drive two dynamos. The dynamo pulley is placed in immediate contact with the



THE EVANS FRICTION CONE.

system to drive dynamos; and many testimonial letters setting forth the advantages of the system for that purpose. A long list is also given of different manufacturing concerns who use it and recommend it, including machinists, printing houses, woolen mills, cotton and print mills, etc.

This system is controlled by the Evans Friction Cone Co., Boston, Mass., and in Canada by the Jencker Machine Co, Sherbrooke, Que.

driving pulley. No clutches or belt holders are necessary, for this system is a clutch in itself. Each and every dynamo can be stopped or started independently of every other, without slowing or stopping the engine. Where the load is intermittent and subject to sudden changes, as in street railway work, this system adapts itself promptly and effectively, without the unsteady motion of other belting. This system obviates the necessity of long flying belts, which carry a large amount of dust; and not only is the room cleaner, but the bearings are free from grit. In the company's catalogue is given a partial list of parties who have adopted this

THE

"OPTIMATES"

POWER HAMMER

Patented in the United States, Canada, and England.

W. H. LAW,
Inventor.

MANUFACTURED BY

The Central Bridge and Engineering Co., Ltd.

PETERBOROUGH, ONTARIO, CAN.