

CANADIAN
ELECTRICAL NEWS
AND
STEAM ENGINEERING JOURNAL.

Vol. VIII.

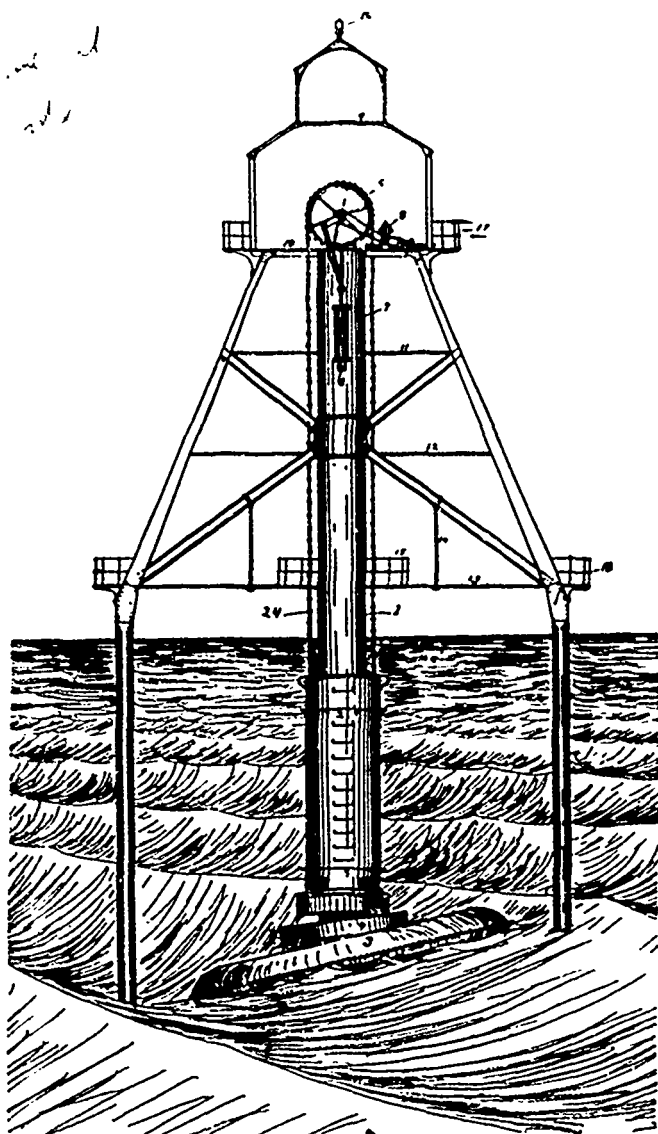
AUGUST, 1898

No. 8.

WAVE MOTOR.

MR. Edward J. Ryan, of Milltown, Charlotte county, New Brunswick, has sent the ELECTRICAL NEWS drawings of a wave motor of which he is the inventor, and which he believes embodies many points of merit. The principle of the motor will be understood by reference to the accompanying illustrations, regarding which the inventor writes as follows :

Fig. 1 is a sectional view of the structure above water

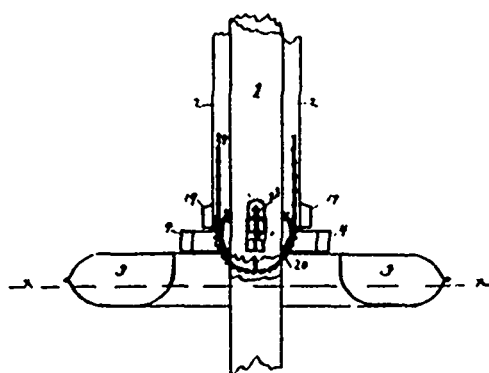


WAVE MOTOR—FIG. 1.

surface. 1, central stationary tube; 2, truck tube; 3, float; 4, hoop; 5, upper sprocket wheel; 6, compressed air pump (there is another pump directly on other side of air tank); 7, air tank; 8, pressure govern device; 9, light room floor; 10, floor on which one or more dynamos may be placed; 11, pump and engine room floor; 12, space on which dynamos can be placed, and to be used by the operators for their living apartments; 13,

lower floor; 14, hanging rods to support centre of lower floor; 15, rail circling opening in lower floor; 16, fog whistle; 17, upper promenade; 18, lower promenade; 24, endless sprocket chain.

Fig. 2 is a sectional view showing lower sprocket wheel. It will be seen that the truck tube, 2, will play

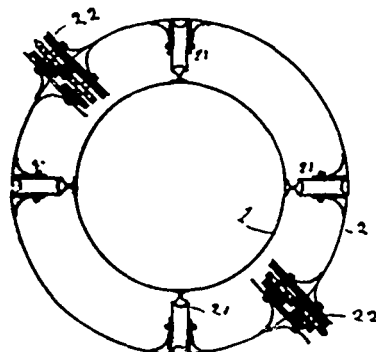


WAVE MOTOR—FIG. 2.

down by the lower sprocket wheel. 1 is stationary central tube; 2, truck tube; 3, section of float (x-x, water surface); 4, section of hoop; 19, base section of truck tube; 23, screw attached to lower sprocket wheel shaft bearings, to lift and lower the same; 24, endless sprocket chain.

Fig. 3 is a top plan sectional view, showing the method of reducing friction of truck tube as it plays up and down on central stationary tube. 1 is central tube; 2, shell of truck tube; 21, rollers and rail; 22, chain gripping devices.

Fig. 4 is a chain grip device, to grip the chain on the upward motion. These devices consist of a sprocket and a roller, between which the chain passes. The sprocket tooth passes through the chain and enters a recess in the roller, so the chain cannot slip. The



WAVE MOTOR—FIG. 3.

sprocket and roller shafts are provided with a cog wheel, which mesh together so that sprocket and roller will always turn together; on the same shafts are placed a ratchet wheel, the same being provided with dogs. When these dogs are in position and the device is carried up, the chain must go with it, and when it descends the sprocket and roller will run down on the chain and