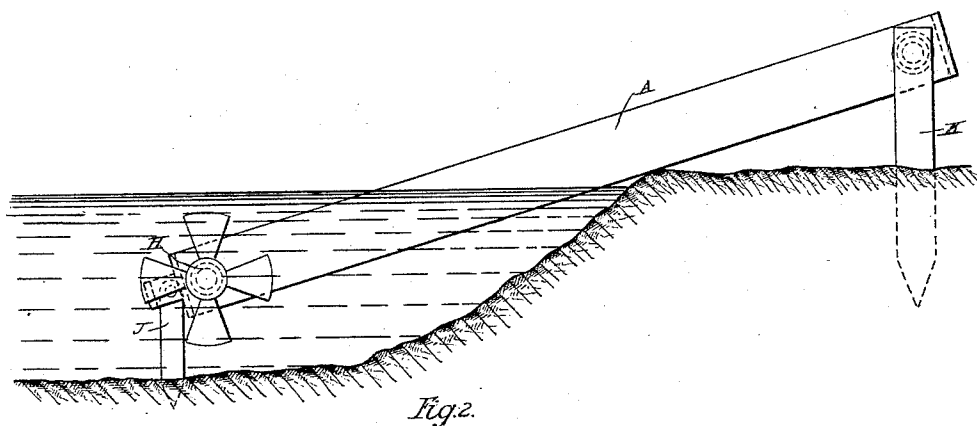
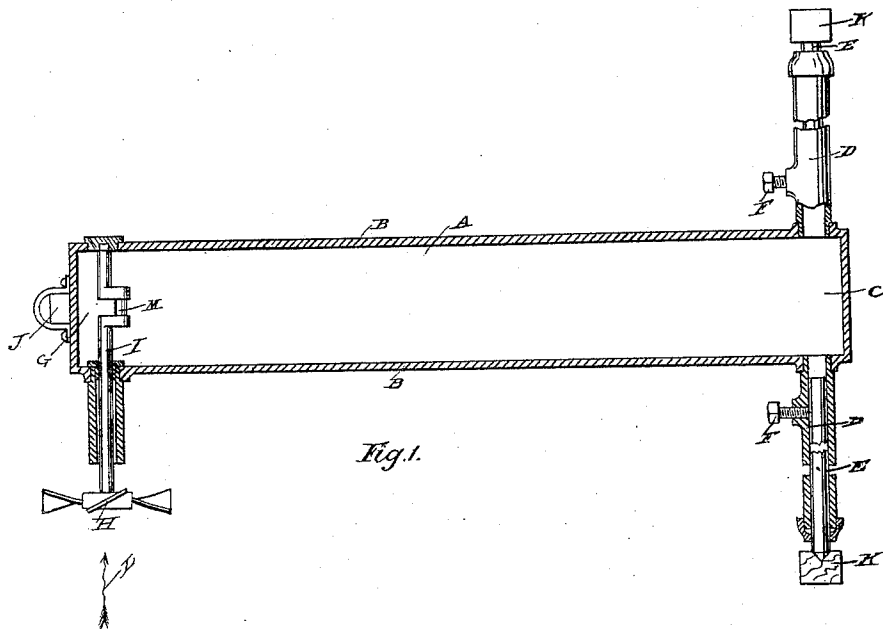


(No Model.)

P. O. GOSSELIN.
HYDRAULIC MOTOR.

No. 463,040.

Patented Nov. 10, 1891.



Witnesses.

James Laurin.
J. D. Ducharme

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UNITED STATES PATENT OFFICE.

PIERRE ONESIME GOSSELIN, OF QUEBEC, CANADA.

HYDRAULIC MOTOR.

SPECIFICATION forming part of Letters Patent No. 463,040, dated November 10, 1891.

Application filed February 19, 1891. Serial No. 382,051. (No model.)

To all whom it may concern:

Be it known that I, PIERRE ONESIME GOSSELIN, a citizen of the Dominion of Canada, residing at the city of Quebec, in the county of Quebec East and Province of Quebec, have invented certain new and useful Improvements in Hydraulic Motors; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has reference to that class of motors set in motion merely by the current of the water in a river, stream, or any other water-way, and not by the head of water above the wheel, it simply consisting in the action of the current against a propeller or screw-wheel, which transmits the power in any convenient way.

The object of my invention is to provide a handy hydraulic motor, as explained hereinafter.

Similar letters refer to similar parts throughout the several views.

Figure 1 is a part horizontal section, and Fig. 2 a vertical view.

A is a strong frame, made of wood, iron, or any other suitable material, having solid sides B, as shown in the drawings, and a bottom and top, if necessary, or simply strong trussed sides B, provided on one extremity C with the two hollow projections D, into which slide strong pivoting-pieces E, which can be clamped at any point by means of the set-screws F or any other suitable device. On its other extremity G is attached the propeller H through the medium of the shaft I, as shown in Fig. 1, or in any other suitable manner, this end G also being provided with the pivoted leg J, which can be dispensed with wherever found necessary or convenient.

Now the operation of my motor is very simple. It is put in place as shown in Fig. 2, the two pivoting-pieces E being firmly clamped against two strong posts or standards K or two masonry walls, in the latter case the pieces E and hollow projections D being replaced merely by projections which would serve the purpose of a shaft, this arrangement in any

case being used to firmly secure the frame A and permit the whole arrangement to turn on the projections D and lower or raise the propeller, as desired. The leg J could be made telescoping for this purpose.

Having firmly secured the frame A, as described above, and immersed the propeller H in the running water, its current being in the direction shown by the arrow L in Fig. 1, the propeller H will immediately rotate and consequently its shaft I, the latter being provided with a crank M or any other suitable arrangement—such as a gear-wheel, pulley, worm-screw, &c.—to transmit the power penetrated. Of course the latter will vary with the velocity of the current and size of propeller, also with the angle of the blades, the latter being two or more in number. As can be seen, this arrangement will permit of a great many applications—for instance, on small streams, or on large rivers, in a boat anchored out in the current, or the apparatus itself erected out in the river—the transmission from the shaft I being made in any suitable manner. The apparatus could also be completely immersed into the water, this, for instance, being useful during the winter, so that the ice would not interfere with it, only openings for the transmission of power being necessary to be kept open through the ice.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination, with the stationary supports, of the frame having hollow projections at one end, the pivoting-pieces longitudinally adjustable in the said projections and pivoting the frame to the said supports, the propeller-wheel provided with a crank-shaft journaled in the other end of the said frame, and the pivoted leg for supporting the free end of the said frame, substantially as and for the purpose set forth.

In testimony whereof I have affixed my signature in presence of two witnesses.

PIERRE ONESIME GOSSELIN.

Witnesses:

JAMES LAURIN,
ERN. LOIGNOUS.