

G. M. FENLEY.
Drift-Wheel for Piers.

No. 227,747.

Patented May 18, 1880.

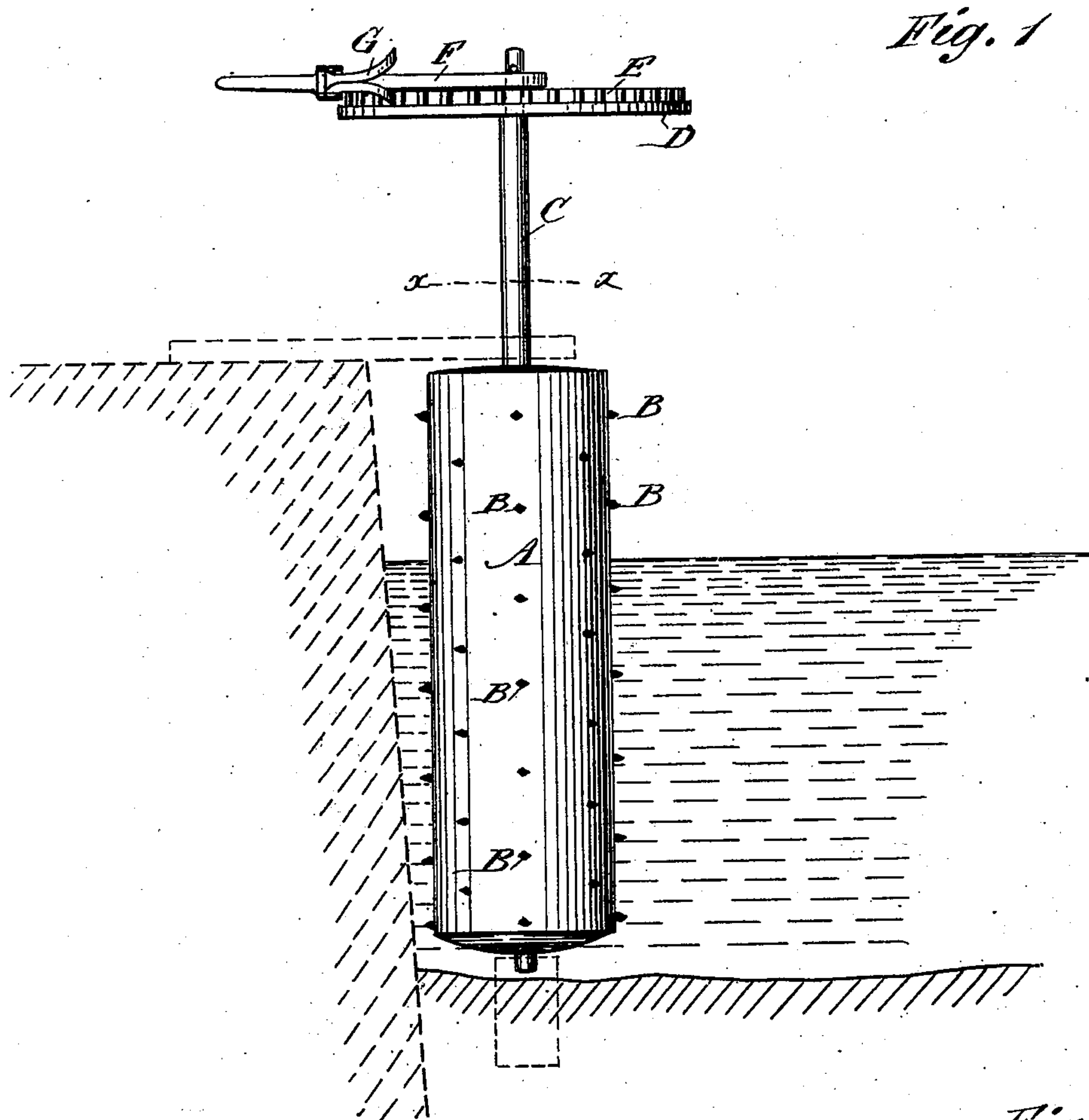


Fig. 2

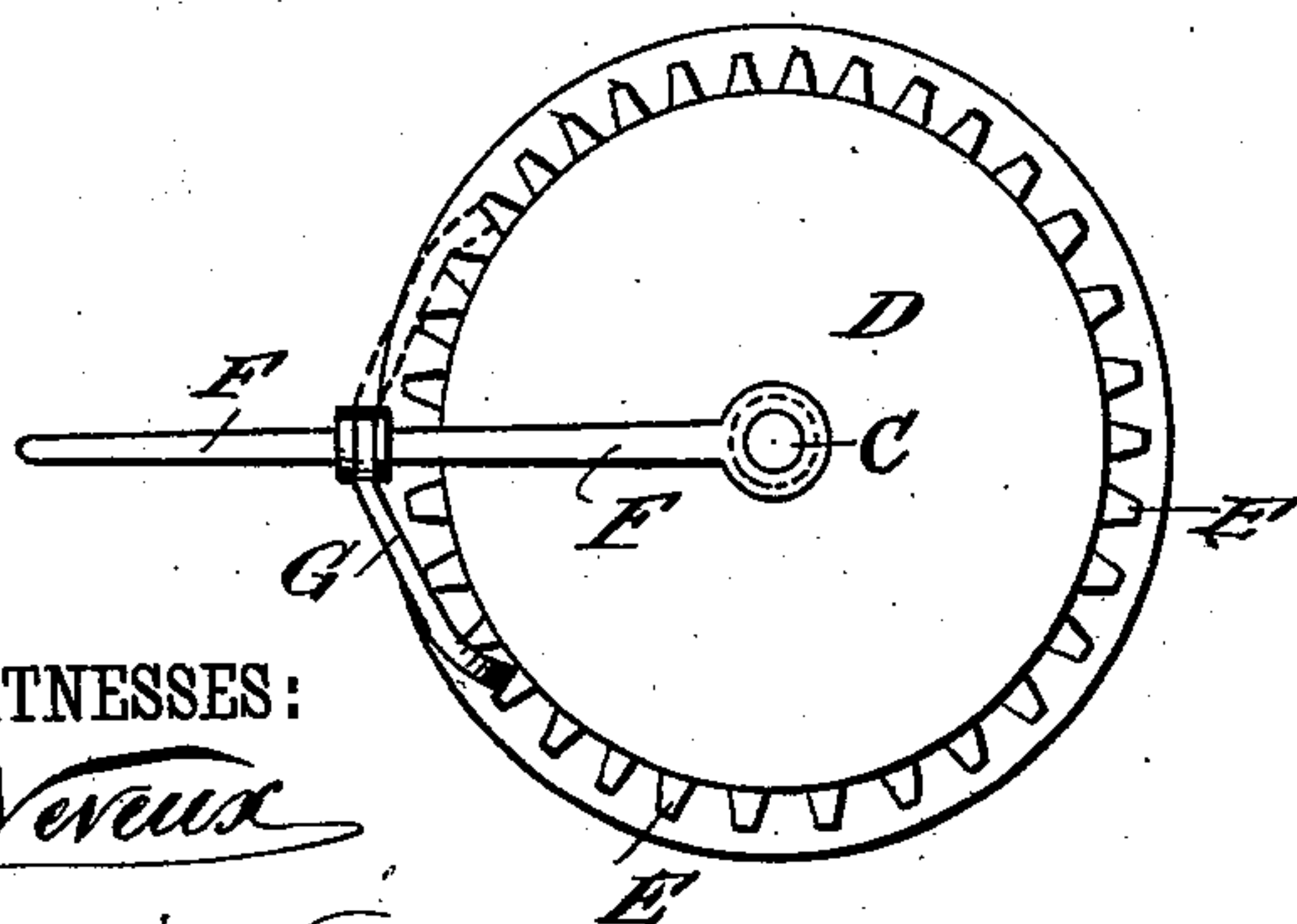
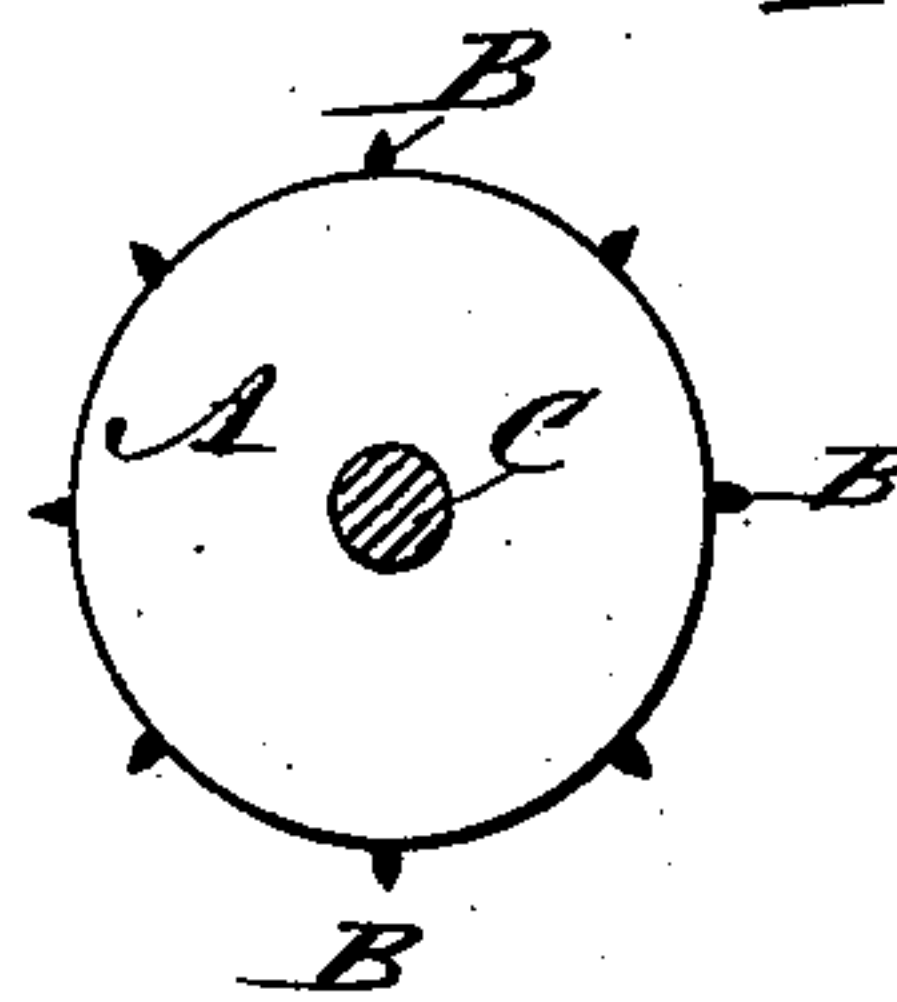


Fig. 3



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE M. FENLEY, OF MEDORA, INDIANA.

DRIFT-WHEEL FOR PIERS.

SPECIFICATION forming part of Letters Patent No. 227,747, dated May 18, 1880.

Application filed January 28, 1880.

To all whom it may concern:

Be it known that I, GEORGE M. FENLEY, of Medora, in the county of Jackson and State of Indiana, have invented a new and Improved Drift-Wheel for Piers, Docks, Landing-Piles, &c., of which the following is a specification.

The object of my invention is to provide a new and improved drift-wheel for preventing drifts, rafts, or logs from stowing against bridges, piers, or docks.

The invention consists of a cylinder armored with spikes and vertically pivoted in front of a pier, dock, or similar structure, so that when the drifts or floating logs strike this wheel they rotate the same and slide along. In case the drift locks or binds around the wheel, the same can be rotated by means of a lever acting upon a wheel attached to the axis of the drift-wheel, and the drift thus set in motion and carried away from the drift-wheel.

In the accompanying drawings, Figure 1 is a side elevation of my improved drift-wheel. Fig. 2 is plan view of the driving-wheel and lever of the same. Fig. 3 is a horizontal cross-section on the line *x x*, Fig. 1.

A cylinder, A, made of metal, wood, or some other suitable material, either hollow or solid, is provided with a roughened armor, such as spikes, B on its periphery, and with a central longitudinal shaft, C. This cylinder is mounted vertically at the end of a pier, bridge, or similar structure, the lower end of the shaft resting in a socket and the upper end being held in some suitable manner, so as to permit the cylinder to rotate on its longitudinal shaft.

On the upper end of the shaft C a wheel, D, provided with ratchet-teeth E, is mounted, and immediately above this wheel D a lever, F, provided with a reversible double pawl, G,

is pivoted to the shaft C. The cylinder A may also be mounted in such a manner as to be inclined.

The operation is as follows: If floating logs, drifts, vessels, or rafts of any kind strike the cylinder A, they will catch on the spikes B sufficiently to rotate the cylinder in either direction, and will thus be guided off, and cannot strike the pier or bridge to which the said cylinder is pivoted.

It may happen that large drifts are stowed up against the cylinder and prevent the same from rotating; and in such cases the cylinder is rotated by means of the lever F, the double pawl G being thrown to either side of the lever F, and engaging with one of the teeth E, as shown in full and dotted lines in Fig. 2. The cylinder may also be arranged to be rotated by some other suitable device.

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

1. A drift-wheel made substantially as herein shown and described, and consisting of a cylinder, A, provided with a roughened armor, and to be mounted in front of a pier or dock, as set forth.

2. In a drift-wheel, the combination of the armored cylinder A with the wheel D, substantially as herein shown and described, and for the purpose set forth.

3. In a drift-wheel, the combination of the armored cylinder A with the lever F, substantially as herein shown and described, and for the purpose set forth.

GEORGE MURPHY FENLEY.

Witnesses:

LEWIS W. HOLMES,
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