(No Model.)

J. C. WEST.

STEAM WARPING SCOW.

No. 454,632. Patented June 23, 1891.

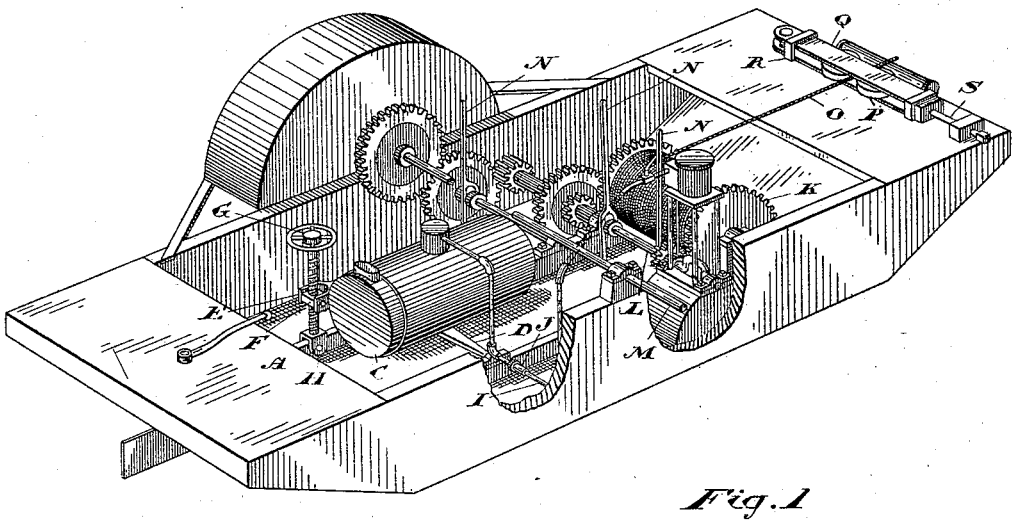

Fig. 1

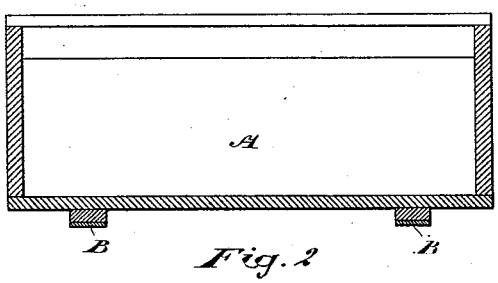

Fig. 2

Witnesses

J. Edw. Maybee

W. G. McMillan.

Inventor

John C. West.

by Donald C. Ridout & Co.

attys

UNITED STATES PATENT OFFICE.

JOHN C. WEST, OF SIMCOE, CANADA, ASSIGNOR OF ONE-HALF TO JAMES PEACHEY, OF SAME PLACE.

STEAM WARPING-SCOW.

SPECIFICATION forming part of Letters Patent No. 454,632, dated June 23, 1891.

Application filed December 31, 1890. Serial No. 376,409. (No model.) Patented in Canada November 5, 1890, No. 35,355.

To all whom it may concern:

Be it known that I, JOHN CEBURN WEST, machinist, of the town of Simcoe, in the county of Norfolk, in the Province of Ontario, Canada, have invented a certain new and Improved Steam Warping-Scow, (for which I have obtained a patent in Canada dated November 5, 1890, No. 35,355,) of which the following is a specification.

The object of the invention is to design a scow which may be propelled in water or on land, and provided with steam-driven mechanism for propelling it in the water, hauling it over the land, and warping or hauling logs and rafts; and it consists, essentially, of a scow provided with steel-covered runners and containing an engine and boiler connected to mechanism, which with slight adjustment may be directed to operate a pair of paddle-wheels or a cable-winding drum, the boiler being carried in suitable trunnions and provided with adjusting mechanism by which the angle of the boiler may be readily altered, the whole mechanism being arranged substantially as hereinafter more particularly explained.

Figure 1 is a perspective view of my improved warping-scow, one of the paddle-wheels being removed for the purpose of exposing the operating mechanism contained in the scow. Fig. 2 is a cross-section of the scow without the mechanism.

In the drawings, A is the scow, on the bottom of which two steel-covered runners B are placed.

C is the boiler, supported at its center in suitable trunnion-bearings D.

E is a heavy arm securely riveted to the boiler C and designed to hold a nut F, through which the adjusting-screw G passes. The bottom end of the screw G is pivoted in and secured to the strap H, which is fastened to the bottom of the scow. The steam-pipe I is jointed, the said joint being made steam-tight by the stuffing-box J. This joint is made on a line with the center of the trunnion D, so that the boiler C may be rocked on its trunnions without affecting the steam-pipe. By arranging the boiler in this way it may always be kept level, no matter how steep the hill the scow may be passing over.

K is a cable-winding drum suitably geared, as indicated, to the engine-shaft L.

M is a paddle-wheel shaft, which is also geared, as indicated, to the shaft L. Shifting-handles N are provided, so that either the drum K or the paddle-wheel shaft M may be connected to or disconnected from the driving-shaft L.

I do not claim anything particular in the operating-gearing, as it may be changed to suit the taste of the constructing engineer. The only point to be observed is that the gearing must be strong in its construction.

O is a cable attached to the cable-winding drum K, which I connect to the raft, and after anchoring or snubbing the scow A, I throw the mechanism into operation to wind the drum K. This cable, it will be observed, passes between two friction-pulleys P, suitably journaled in the frame Q, which is secured to the scow A by two staples R. This frame may be adjusted longitudinally, or, in other words, across the bow of the scow. An adjusting-screw S is provided for that purpose, or a pawl-and-ratchet device may be substituted.

What I claim as my invention is—

A scow provided with suitable engine and propelling means, a boiler C, pivoted on suitable trunnion-bearings D in said scow, a jointed steam-pipe I, connected to said trunnion-bearings and engine, in combination with an arm E, connected to the boiler, nut F, carried by said arm, and screw G, passing through said nut, substantially as and for the purpose specified.

Simcoe, Canada, November 29, 1890.

JOHN C. WEST.

In presence of—

J. BOYD,

FRANK. E. JULL.