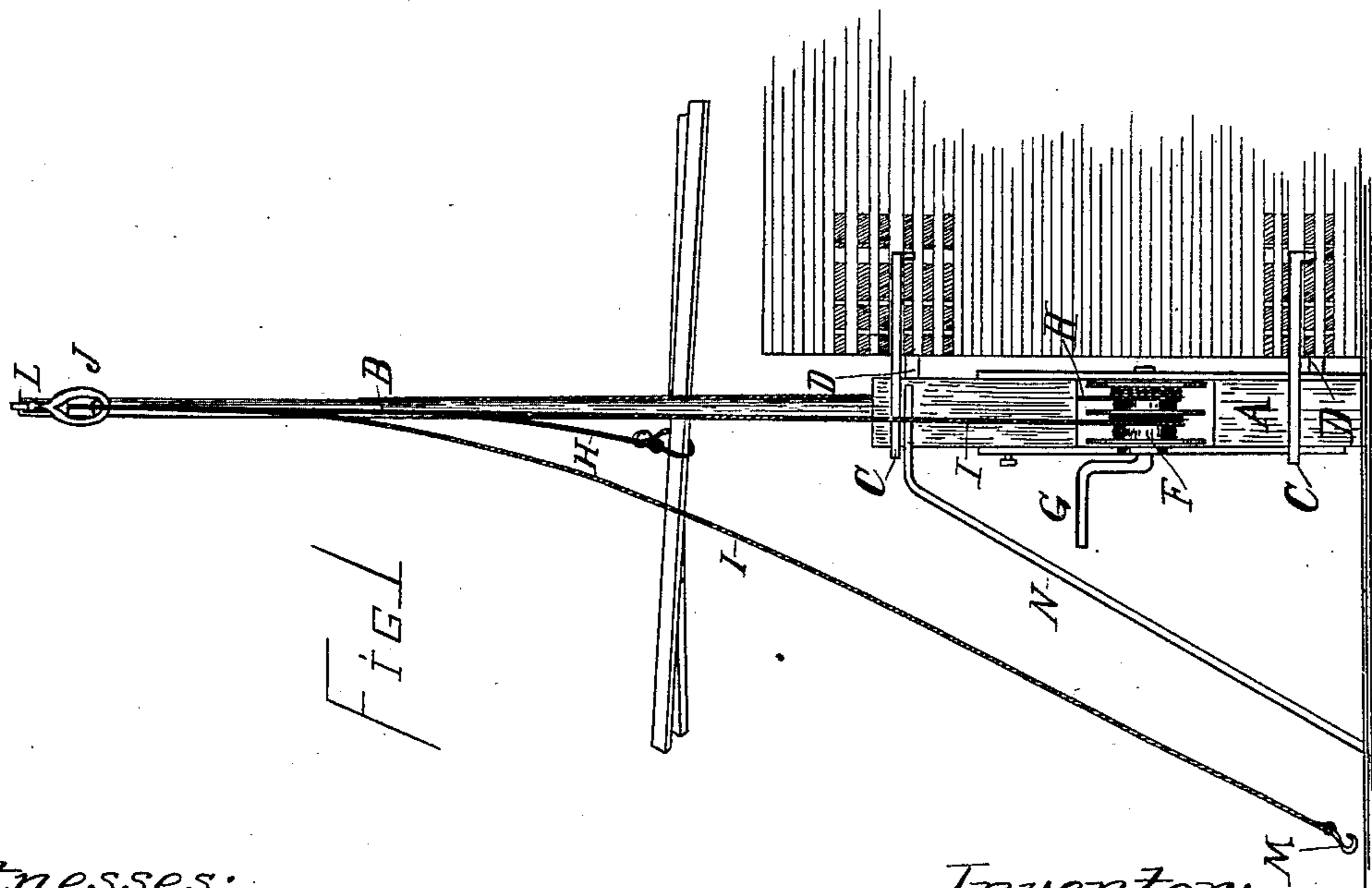
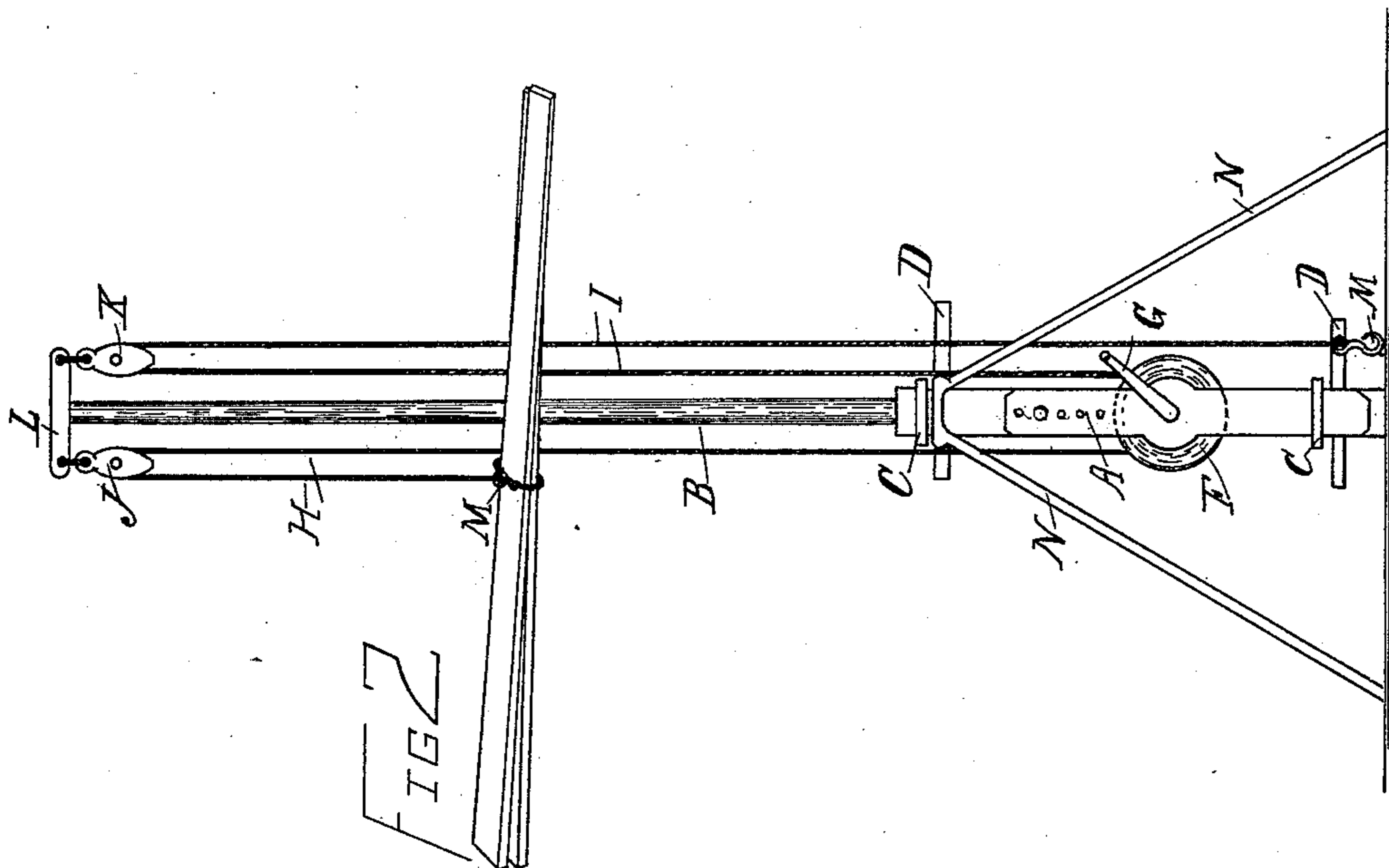


(No Model.)

J. B. NADEAU.
LUMBER LIFTING MACHINE.

No. 420,516.

Patented Feb. 4, 1890.



Witnesses:

James F. Duhamel
Horace A. Dodge.

Inventor;

Jean Baptiste Nadeau,
by Dodge & Co.
his Attys.

UNITED STATES PATENT OFFICE.

JEAN BAPTISTE NADEAU, OF ETCHEMIN, QUEBEC, CANADA.

LUMBER-LIFTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 420,516, dated February 4, 1890.

Application filed October 24, 1889. Serial No. 328,026. (No model.) Patented in Canada November 12, 1889, No. 32,802.

To all whom it may concern:

Be it known that I, JEAN BAPTISTE NADEAU, a citizen of the Dominion of Canada, residing at Etchemin, in the county of Levis, in the Province of Quebec, Canada, a subject of the Queen of Great Britain, have invented a new and useful Improvement in Lumber-Lifting Machines, (for which I have received Letters Patent of the Dominion of Canada, No. 32,802, dated November 12, 1889,) of which the following is a specification.

My invention, of which this is a description, is embodied in a machine which is designed to facilitate the laying up of lumber in high piles, and which can also be used for the purpose of loading and unloading boats, cars, &c.; and it consists, essentially, in an upright stem or body of suitable length for the purpose intended, and it is provided with means for holding it in an upright position with double ropes and pulley device, and a winding-barrel and hand-crank for working the same, and also with a removable guard for protecting the operator of the machine from injury or accidents, all substantially as hereinafter more fully described, and the object of which is attained by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a face view of the machine as attached to a low pile of lumber for the purpose of adding to its height, and Fig. 2 is a side view of the same.

In the accompanying drawings, similar letters of reference refer to similar parts.

The body of the machine is composed of two parts—namely, the base A and the extension-mast B.

When a pile of lumber has been laid up as high as can conveniently be done by hand, the base A of my lumber-lifter is placed against one of its sides, to which it is then rigidly secured by the staple grab-hooks C, which reach in and attach to some of the boards in the pile, and the wedges D, which are driven between the pile and the body A, fasten it snugly to the pile. The extension-mast B, which I prefer to make of iron pipe for the purpose of lengthening or shortening

it at will, as may be required by the height of the lumber pile, is let into the top of the base. A winding-barrel F is journaled in a chamber or slot formed in the body A, one of its journals being extended to form the hand-crank G. The barrel F is divided into two sections, to each of which there is attached one of the ropes H and I, which run up through the pulley-blocks J and K, which are attached to the cross-head L of the mast, and downward to the operator. Hooks M are attached to the ends of the ropes to facilitate the handling of the lumber. The winding-barrel and the ropes are so arranged that when one rope is winding the other is unwinding, and vice versa.

In operation the rope is thrown around one or more of the planks or boards to be raised and hooked, as shown in the drawings. Then as the crank G is turned the load is raised, and at the same time the other rope with its hook is descending for its load.

To insure the operator of the machine and at the crank against injury by the load coming against him in its ascension a guard N is placed over him leaning against the base A, as shown.

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

1. In a lumber-lifting machine, the combination, with the base, mast, cross-head, winding-drums, and ropes, of a guard N, arranged substantially as shown.

2. In a lumber-lifting machine, the combination, with the base, of wedges D, adapted to engage the pile of lumber, a mast, a winding-drum, a hook C, and ropes.

3. A lumber-lifting machine consisting of the base A, mast B, hooks C, wedges D, winding-barrel F, ropes H and I, pulley-blocks J and K, hooks M, and guard N, all substantially as described, and for the purposes set forth.

JEAN BAPTISTE NADEAU.

Witnesses:

J. BOUTIN BOURASSA,
NARC. CAUTIN.