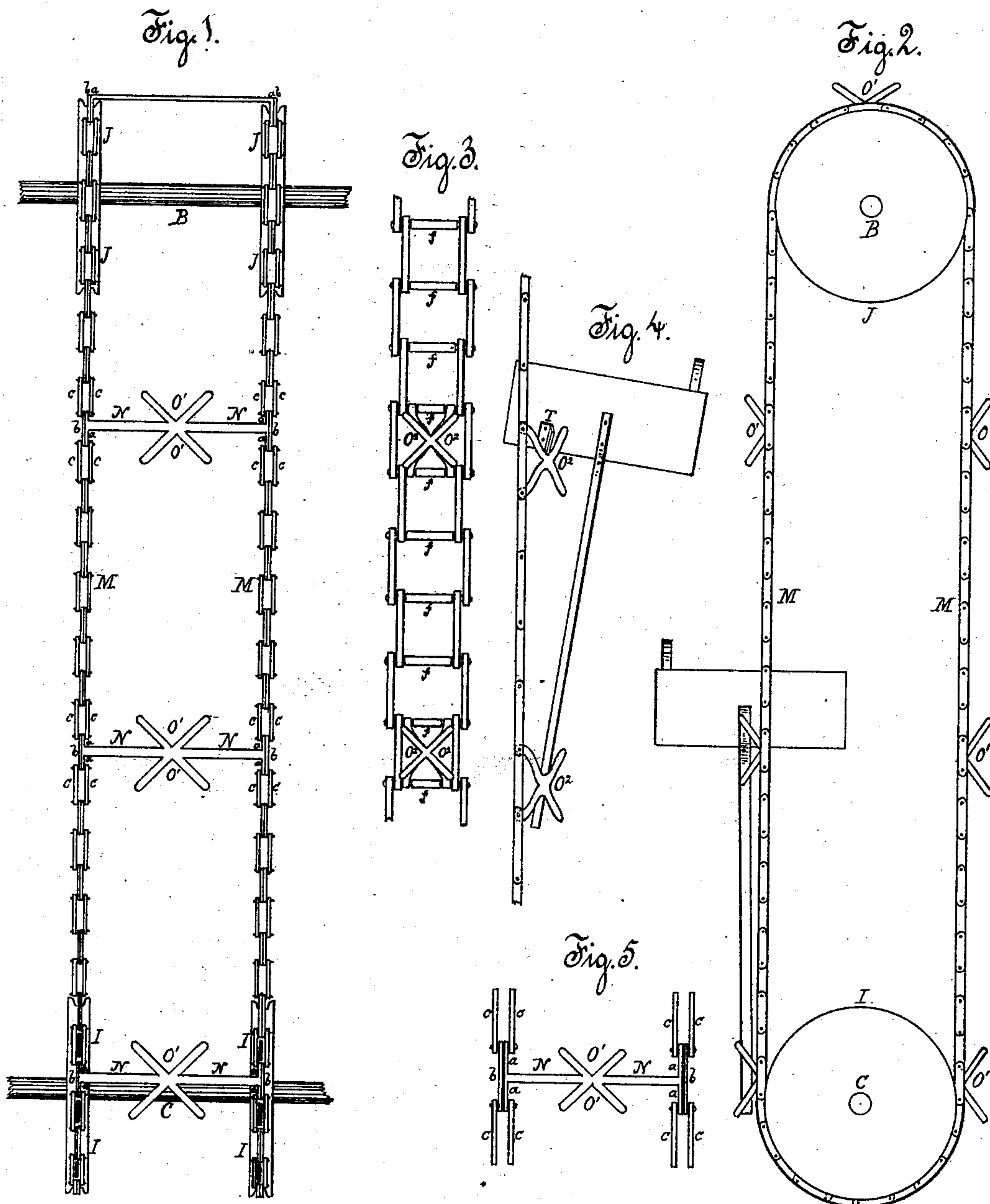


(No Model.)

L. ATWOOD.
ENDLESS HOD ELEVATOR.

No. 275,455.

Patented Apr. 10, 1883.



Witnesses:

Daniel W. Mott.

Jacob Rettig

Inventor:

Leonard Atwood

UNITED STATES PATENT OFFICE.

LEONARD ATWOOD, OF NEW YORK, N. Y.

ENDLESS HOD-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 275,455, dated April 10, 1883.

Application filed January 4, 1883. (No model.)

To all whom it may concern:

Be it known that I, LEONARD ATWOOD, of the city of New York, in the county and State of New York, have invented a certain new and useful Endless Hod-Elevator, of which the following is a specification, reference being had to the accompanying drawings, constituting part thereof.

My invention relates to those elevators having continuous motion, and employing substantially an endless belt or ladder running upon and around suitable pulleys hung in frames located respectively at the top and bottom of a building in course of erection.

The subjects of my invention are a novel carrier or supporter for the hod and its novel combination with the endless belt or ladder, and a novel construction of the endless belt or ladder itself.

In the accompanying drawings the same letters of reference indicate corresponding parts throughout the several views.

Figures 1 and 2 are front and side elevations illustrating my invention, and Fig. 5 is an enlarged view of the details. Figs. 3 and 4 are similar views of a modified construction hereinafter more fully described.

Referring to Figs. 1 and 2, upright standards upon any suitable base bear the shafts B and C in the well-known way. Hand, horse, or steam power is to be applied in the ordinary manner. The shaft C carries suitable pulleys, I I, upon and around which travels the endless belt or ladder M M, extending upward to any desired height over and around similar pulleys, J J, upon the shaft B.

My hod carrier or supporter consists of an X-shaped piece, O' or O², upon a round of the ladder, as shown in Fig. 1, or between the links of a suitable endless chain, as shown in Fig. 3. This hod carrier or supporter may be made integral with each round or link, or may be made removable and adjustable upon the round or between the links by any of the ordinary mechanical means. The angles may be suited to the angle of the hod-bowl, and the arms may be upright or bent outward or forward, as in Figs. 2 and 4, to facilitate removal of the hod and to hold the lower end of the hod-shank, as shown most clearly in Fig. 2. I prefer to make the rounds N with a link, *a*, at each end, as shown in Figs. 1 and 5; and when this is made of cast metal I use a wrought link, *b*, alongside to increase the strength and guard

against accidents from imperfect castings or insufficient strength. I also make a narrower endless belt of the peculiar construction shown most clearly in Fig. 3. I make it up of single links kept apart by pieces of pipe *f f* of proper lengths, and bolted or riveted together through these pipes.

I adapt and attach my hod carriers or supporters O² by suitable brackets or arms, as shown in Figs. 3 and 4, so that they stand out from the endless belt to receive the hod-bowl. To give greater security, a pin or stop, T, may be placed upon the sides of the bowl to prevent falling out.

The manner of using my invention is well known in the art.

What I claim as novel, useful, and my invention is—

1. An X-shaped hod-supporter removable and adjustable upon a round of an endless hod-elevating ladder.

2. An X-shaped hod-supporter integral with the round of an endless hod-elevating ladder.

3. An X-shaped hod-supporter, in combination with a round having links integral therewith at either end, suited to connect in the parallel chains composing an endless hod-elevating ladder.

4. A round, in combination and integral with a link at each end, fitted to connect with the parallel chains composing an endless hod-elevating ladder.

5. A wrought link, together with and to reinforce a cast link joined to or integral with the round, as connecting-links of an endless hod-elevating ladder.

6. An endless hod-elevating ladder composed of single links kept apart by pieces of pipe, and bolted or riveted together through such pipes.

7. An X-shaped hod-supporter provided with brackets or arms for attachment to an endless hod-elevating ladder.

8. An X-shaped hod-supporter outwardly curved or bent to facilitate removing the hod and to hold the hod-shank against lateral sway.

In testimony whereof I have hereunto signed my name this 7th day of October, A. D. 1882, in the presence of two subscribing witnesses.

LEONARD ATWOOD.

Witnesses:

JACOB RETTIG,
GEORGE W. VULTEE.