

T. Harter.

Hay Elevator

No. 120,273.

Patented Oct. 24, 1871.

Fig 1

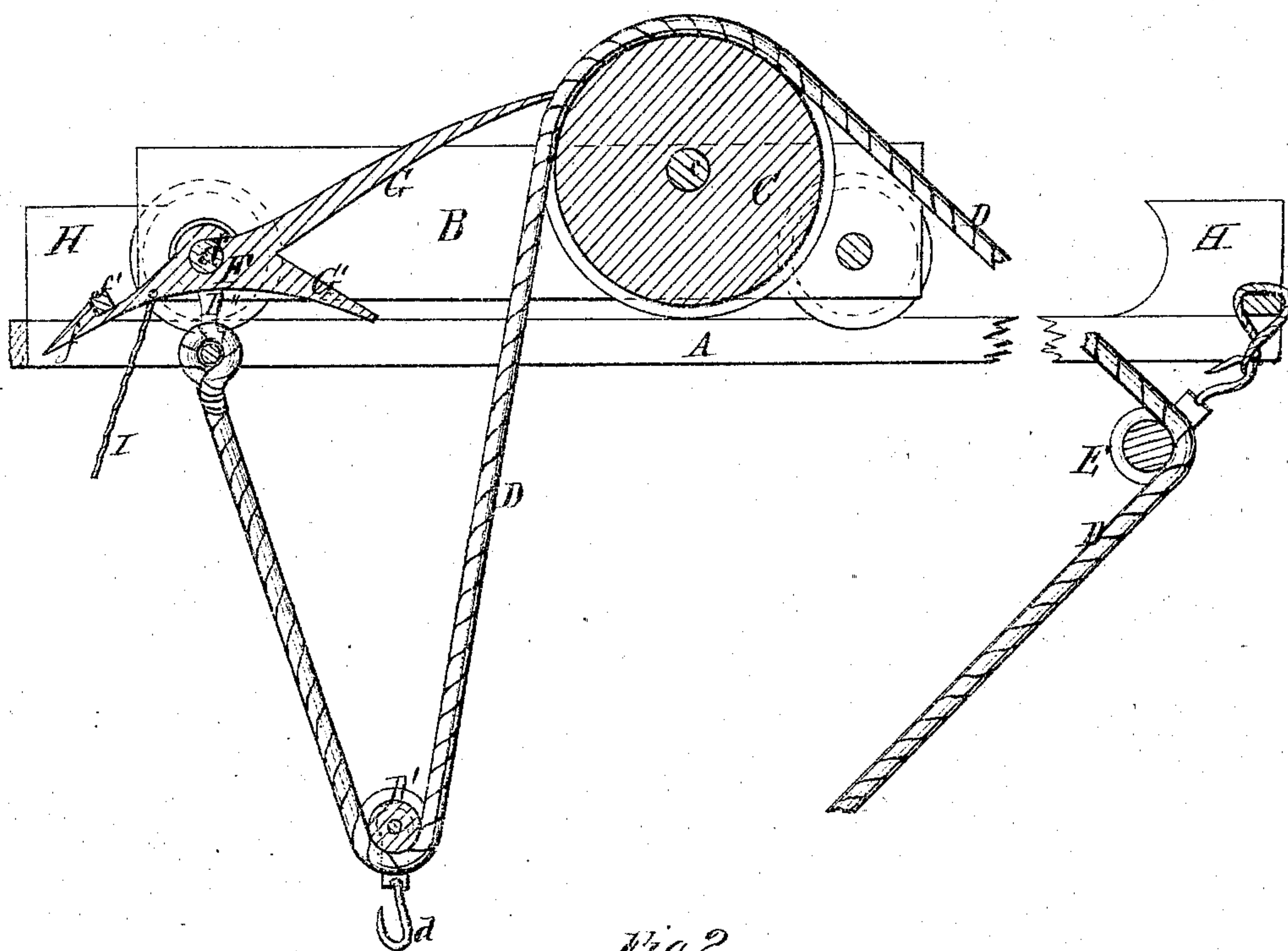
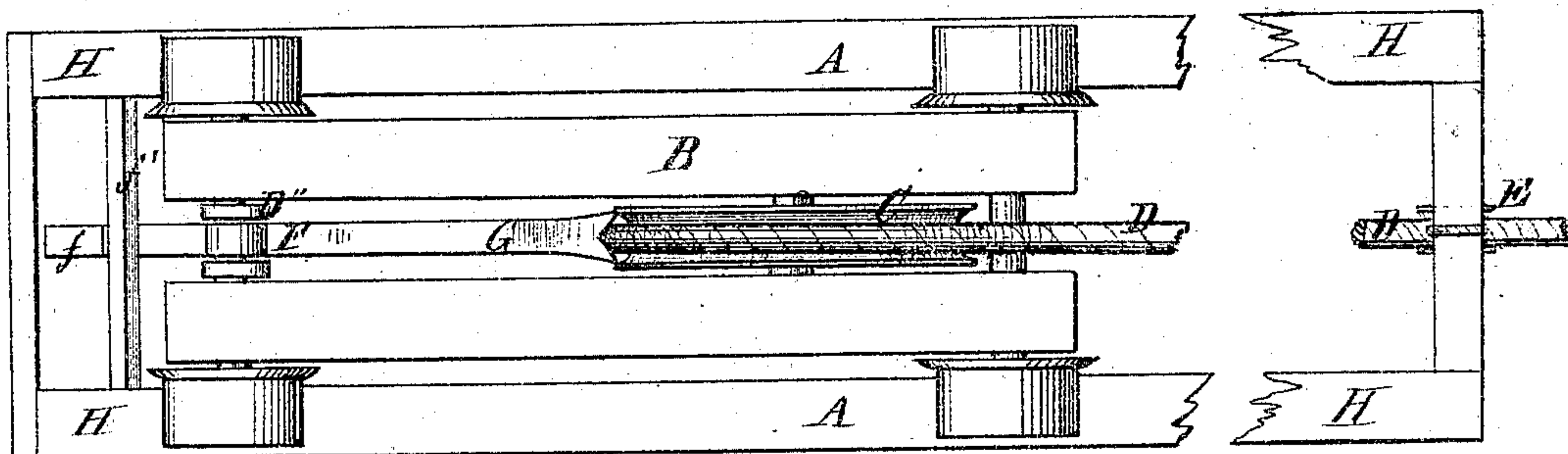


Fig 2



Witnesses

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UNITED STATES PATENT OFFICE.

THEADORE HARTER, OF ILION, NEW YORK.

IMPROVEMENT IN HAY-ELEVATORS.

Specification forming part of Letters Patent No. 120,273, dated October 24, 1871.

To all whom it may concern:

Be it known that I, THEADORE HARTER, of Ilion, in the county of Herkimer and State of New York, have invented a new and valuable Improvement in Hay-Elevators; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a vertical horizontal section of my invention. Fig. 2 is a plan view of the same.

This invention has relation to an improved hay-elevator for raising and transferring from one part of a building to another large quantities of hay or other material; and consists in the construction and novel arrangement of the parts and devices employed, as hereinafter described.

In the accompanying drawing illustrating this invention, A represents a track or skid composed of two parallel horizontal rails, properly supported at an elevation within a barn or other building; B, a truck provided with flanged-wheels *b*, designed to roll and carry along the track over the track A; C, a large pulley-wheel journaled between the sides of the track, by means of a transverse shaft, *c*; D, a rope which passes over the pulley C; thence around a pulley, D', having a hook, *d*, on which the hay or weight is suspended; thence connected at one end to a link, D'', hung by means of eyes or hooks on the axle *d'* of the truck-wheels at one end of the truck. The other end of the rope runs forward over a pulley, E, to be attached to the horses or operating power. F represents a trip-lever arranged to oscillate on the axle *d'*. The rear end of this lever is constructed with a beveled point, *f*, terminating in a shoulder, by means of which it attaches itself to a transverse bar, *f'*, fixed to the track-frame at one end thereof. The fore part of this lever consists of two diverging arms, G G', one of which (G) extends in an upward direction toward the pulley-wheel C, in order to rest on the

rope D, and when in that position to hold it securely from moving in a reverse direction. The end of this arm for such purpose is formed with an angular recess or serration to better enable it to take hold on the rope. The arm G' is bent downward, as shown in Fig. 1. H represents bumpers at either end of the track to receive the force of the moving truck. I indicates a cord or rope attached to the lever F to operate it from below.

The operation of the device herein described is as follows: The rope D with pulley D', holding hook *d*, is let down by releasing the arm G from contact with said rope. The hay or weight is then hung on the hook, or other suitable device in its place, and the same raised by pulling at the power end of the rope until the pulley-block touches and presses against the arm G'. This action releases the rear end of the lever from the bar *f*, after which the arm G, having been raised, falls again on the rope and holds it while the truck and its load are drawn to the point required. A small rope or cord, I, attached to the lever, is employed to remove the arm G and allow the load to be let down and taken off; and also as a means by which the unloaded truck is brought back to its starting-place. The bar *f* may be made adjustable, so that it can be used at any point along the track, if necessary, so that it is not absolutely required to load the car at one end of the track in order to transfer the load to the other end.

I claim as my invention—

The lever F, having the beveled end *f* and diverging arms G G', in combination with the bar *f*, pulleys C D', and rope D, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

THEADORE HARTER.

Witnesses:

W. H. ELLIOT,
D. LEWIS.

(79)