

No. 671,808.

Patented Apr. 9, 1901.

E. SAYRE.
HAND ELEVATOR.

(Application filed Nov. 28, 1900.)

(No Model.)

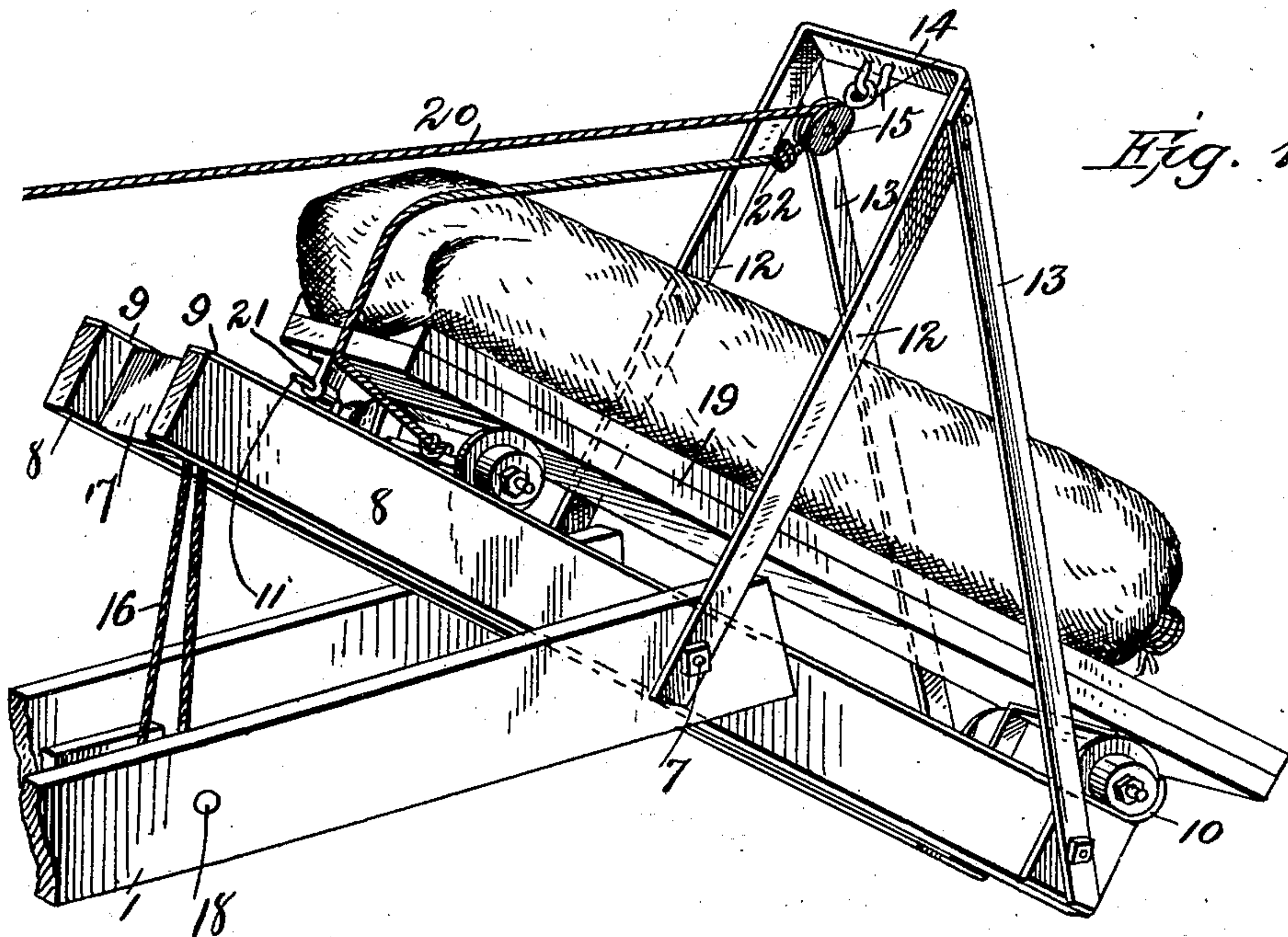


Fig. 1.

Fig. 2.

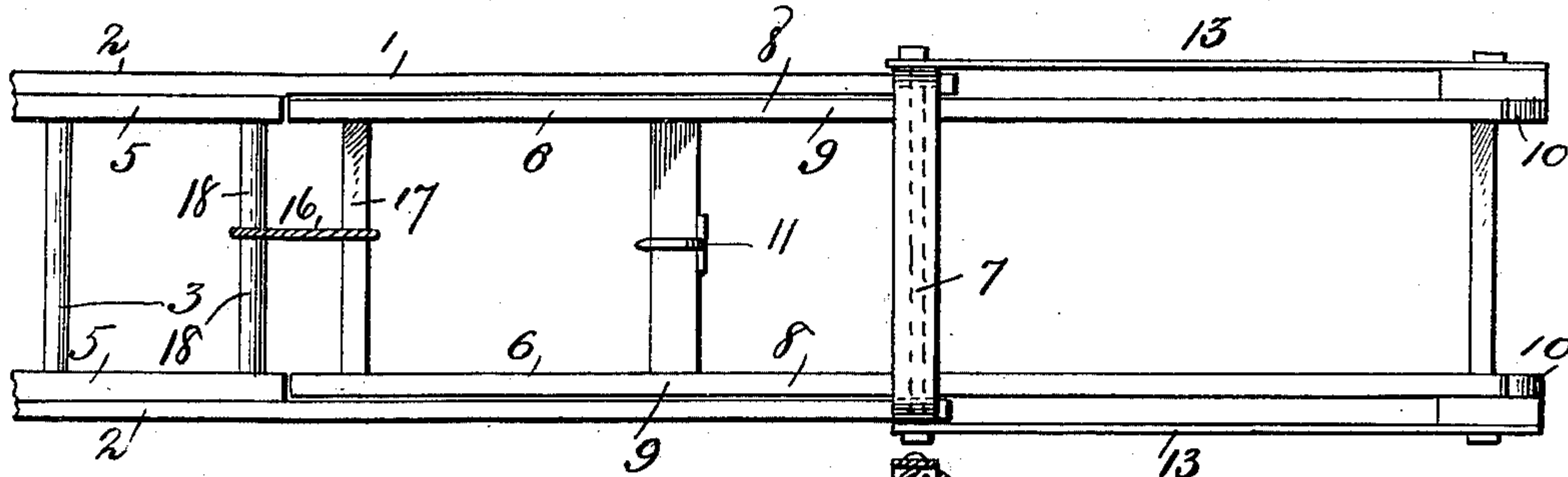
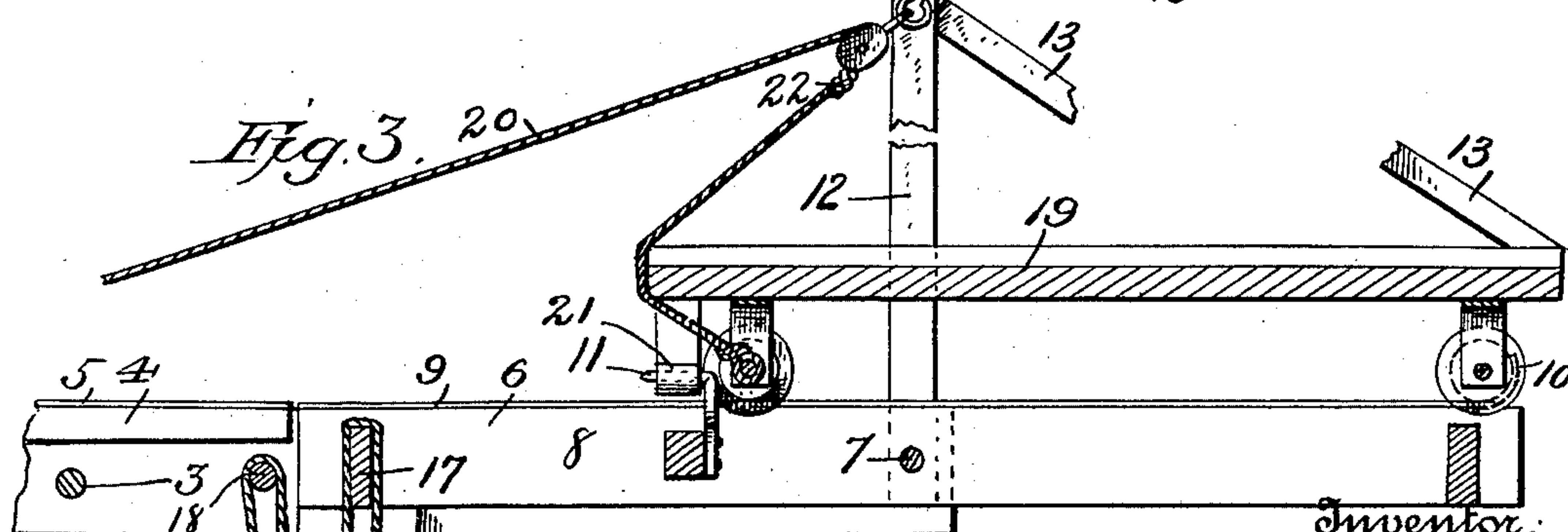


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

ENOCK SAYRE, OF CHILLICOTHE, OHIO.

HAND-ELEVATOR.

SPECIFICATION forming part of Letters Patent No. 671,808, dated April 9, 1901.

Application filed November 28, 1900. Serial No. 37,974. (No model.)

To all whom it may concern:

Be it known that I, ENOCK SAYRE, a citizen of the United States, residing at Chillicothe, in the county of Ross and State of Ohio, have
5 invented new and useful Improvements in Hand-Elevators, of which the following is a specification.

My invention relates to hand-operated elevators designed for the purpose of conveying
10 grain or other material in sacks or packages from one place to another and automatically dumping said sacks or packages; and the objects of the same are to provide a simple and convenient device for this purpose which will
15 be reliable and efficient and which will convey the sacks or packages expeditiously and dump them automatically with the expenditure of but little power. I attain these objects by means of the construction shown in
20 the accompanying drawings, in which—

Figure 1 is a perspective view of an apparatus made in accordance with my invention. Fig. 2 is a plan view thereof. Fig. 3 is a detail section of the carriage on the dumping-
25 section of the track.

Like numerals of reference designate like parts wherever they occur in the different views.

In said drawings the numeral 1 designates
30 a track which may be constructed of the two pieces 2 2, held the required distance apart by the transverse rods 3. Cleats 4 are secured to the inner sides of the pieces 2 near their upper edges, and at the top of these
35 cleats track-rails or metal straps 5 may be secured. At one end of the pieces 2 a dump 6 is pivoted on the transverse rod 7. This dump consists of the two side pieces 8 8, having rails 9 9 secured to their upper edges,
40 said rails forming a continuation of the rails 5 when the dump is in its normal position. At the outer end of the dump a pair of curved stops 10 are secured, and near the opposite end a hook or catch 11 is provided, which extends horizontally and is formed on the end
45 of an upwardly-extending arm, which is firmly secured at its lower end to one of the cross-bars of the dump. A metal frame 12 is pivotally secured to the side pieces 2 and to the
50 pieces 8 and extends up a suitable distance

and is braced from the dump by the inclined metal straps 13. Secured to the cross-bar 14 of the frame 12 is a pulley 15. A rope 16 is secured to a cross-bar 17 on the dump, said rope extending around a cross-bar 18 between
55 the pieces 2. A truck or carriage 19, designed to carry sacks or packages, is mounted on wheels to run on the tracks 5 and 9. A rope 20 is secured to the rear end of the truck, and said rope passes up and through the pulley 15. A downwardly-extending arm having
60 an eye 21 in its lower end is rigidly mounted on the rear end of the truck. This eye 21 is designed to be engaged by the catch 11. By this arrangement the car is held from over-
65 balancing, and thereby leaving the track. A knot 22, formed in the rope 20, serves as a stop to limit the upward movement of the truck.

The operation of my invention is as follows: The elevator is placed in position to
70 convey the sacks or packages to the desired point, which may be a bin or loft. One or more sacks may be placed upon the truck, and the rope 20 passes around the lower end
75 of the load to hold it on the truck. By pulling upon the opposite end of the rope 20 the truck is moved up the track until the knot 22 in the rope reaches the pulley 15, at which time the front wheels of the truck are caught
80 by the curved stops 10, and the hook or catch 11 engages the eye 21 on the truck. At this position of the truck the dump is tilted by gravity, and the load is slid off the truck into the bin. Relieved of its load, the dump re-
85 turns to its normal position, and the truck returns by gravity to the loading-point at the opposite end of the track. The rope 16 may be shortened or lengthened to give more or
90 less inclination to the dump when desired.

From the foregoing it will be obvious that my elevator is simple in construction, not liable to get out of order, is efficient for its purpose, will handle a large quantity of grain
95 or other material in a short time, and can be constructed at a small cost.

Having thus fully described my invention, what I claim is—

A hand-operated conveyer, consisting of a track, a dump pivoted to one end thereof, a 100

frame rising from the track, a pulley on the
frame, a car, a rope attached to the rear end
of the car and passing over the pulley, curved
stops on the dump at one end, a hook or catch
5 at the opposite end, and an eye on the car
adapted to engage the hook or catch, sub-
stantially as described.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

ENOCH SAYRE.

Witnesses:

C. T. FOWLER,

CHAS. E. CAPPLE.