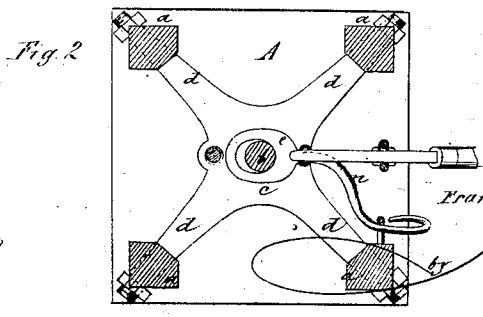
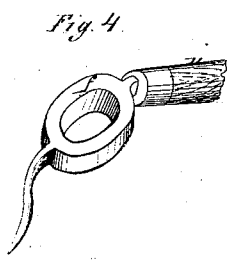
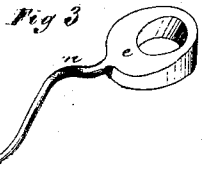
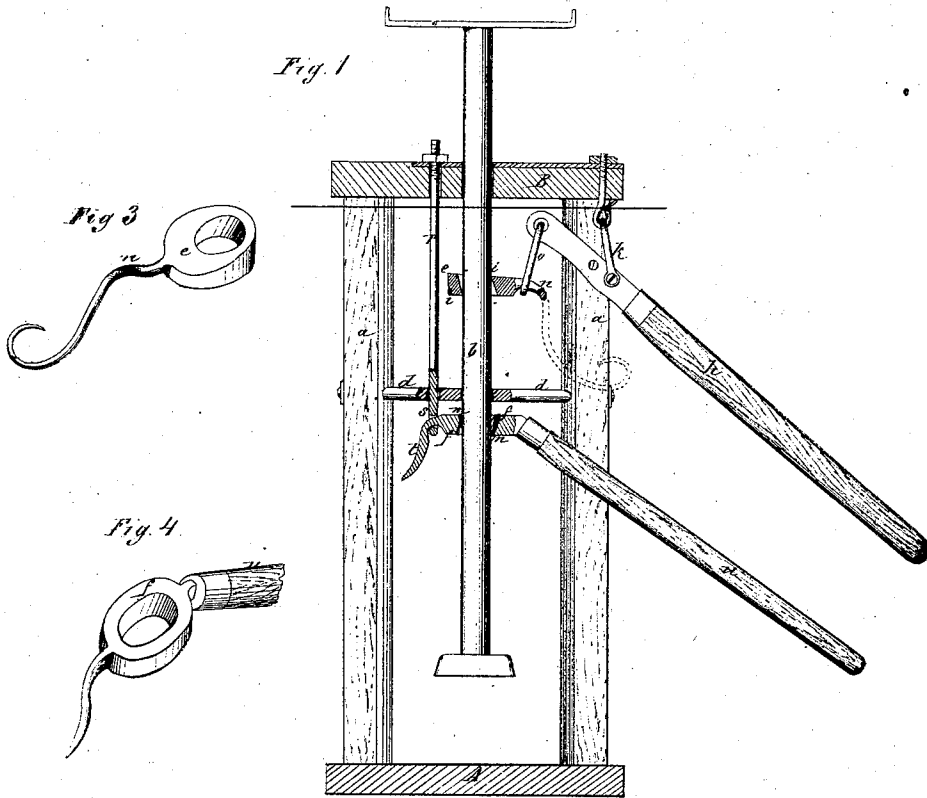


F. Hollenberry,

Lifting Jack.

No. 106485.

Patented Aug. 16. 1870.



Witnesses
R. A. Tracy
John D. Simon

Frank Hollenberry,
Inventor
Allen & Co.
his Attorneys.

United States Patent Office.

FRANK HOLLENBERRY, OF FRIZELLBURG, MARYLAND, ASSIGNOR TO HIMSELF AND JOHN C. FRIZELL, OF SAME PLACE.

Letters Patent No. 106,485, dated August 16, 1870.

IMPROVEMENT IN HOISTING-JACK.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, FRANK HOLLENBERRY, of Frizellburg, in the county of Carroll and State of Maryland, have invented a new and improved Hoisting-Jack; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a sectional elevation;

Figure 2 is a transverse vertical section;

Figure 3, a perspective view of the upper clamp, with its curved lever; and

Figure 4, a perspective view of the lower clamp.

This invention relates to an apparatus in which the vertical lifting-bar passes through two annular clamps, each of which is connected with the inner end of a lever, whose fulcrum is in the frame that incloses the lifting-bar, the orifices in which clamps, through which the lifting-bar passes, having sides that are inclined with respect to the bar, when the clamps are at right angles to the same, and present sharp corners, by which the upper clamp bites the bar, and draws it upward, when elevated, by pressing down the upper lever, and the lower clamp bites the bar, and holds it at the height to which it had been raised, during the time when the upper clamp is descending on the bar, in order to take fresh hold, the two clamps being complementary, one biting the bar while the same is sliding through the other, and means being provided to prevent either clamp from biting the bar, in order to allow it to slip to the bottom of the frame, at pleasure.

In the drawing—

a a a a are four wooden posts of any desired dimensions, stepped in a block, *A*, and mortised into a head-piece, *B*.

b is the vertical lifting-bar, above referred to, which passes through a central orifice in the head-piece *B*.

c is a metal plate, having four arms, *d*, each of which passes through one of the posts *a*, and binds the same to the others, the metal plate being provided with an orifice, through which the lifting-bar passes.

e is the upper, and

f, the lower annular clamp.

i is the upper right and lower left biting corners of the upper clamp, and

m, the upper left and lower right biting corners of the lower clamp.

h is the upper lever, which is connected by a link, *k*, with an eye, *l*, whose shank enters the head-piece *B*.

n is a handle, attached to the upper clamp *e*.

o is a link, which connects the lever *h* with the handle *n* in such manner that, when the lever *h* is depressed, the clamp *e* is made to bite the lifting-bar, and draw the same up with it, the lower clamp being at the same time canted upward so far by the pressure of the bar upon its upper left corner *m* as to admit of the bar sliding through it.

r is a bar, extending downward from the head-piece *B*, passing through the plate *c*, and having an eye, *s*, at its lower extremity.

t is a tail, projecting from the outside of the clamp *f*, and passing through the eye *s*.

u is the lower lever, which is connected with the clamp *f* by an arm of the latter entering a socket in the end of the former.

When the upper lever is raised, its link *o* loosens the teeth of the clamp *e* from the lifting-bar, so that the clamp slides down the bar into position for a fresh hold.

The lifting-bar, on being released by the upper clamp, is caught by the corners *m* of the lower clamp, and held at the height to which it had been raised. By raising the lower lever, the lifting-bar is freed from the corners *m*.

If, then, the handle *n* of the upper clamp be lowered, the bar is also freed from the corners *i* of the upper clamp, and drops to the bottom of the frame.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The clamp *e*, provided with the corners *i* and handle *n*, in combination with the bar *b*, link *o*, and lever *h*, when the latter has its fulcrum in the eye *l*, or other part of the inclosing-frame, substantially as described.

2. The clamp *f*, provided with the corners *m* and tail *t*, in combination with the eye *s* of the rod *r*, or other suitable fulcrum, the bar *b* and lever *u*, substantially as set forth.

3. The arrangement of the clamps *e f*, levers *h u*, bar *b*, frame *a A B*, and handle *n*, as specified.

To the above specification of my invention I have signed my hand this 19th day of July, A. D. 1869.

FRANK HOLLENBERRY.

Witnesses:

SOLON C. KEMON,
THOS. D. D. OURAND.