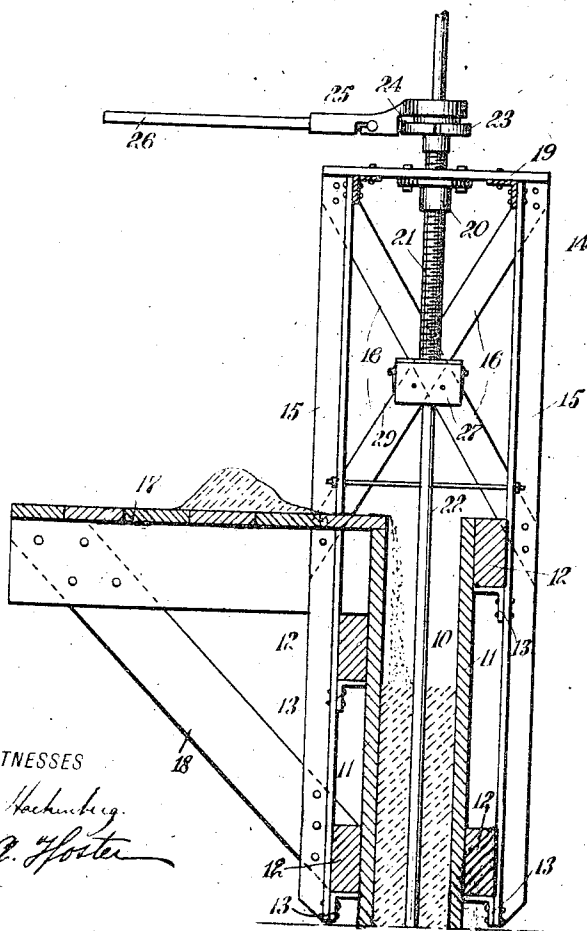
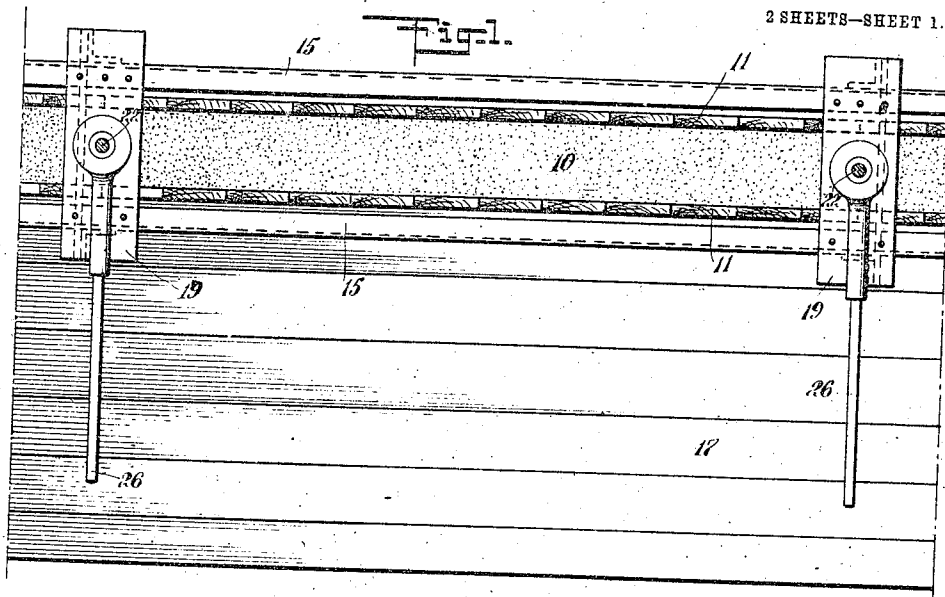


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J. S. LINTON.
RAISING DEVICE FOR MOLDS.
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Patented Mar. 29, 1910.

2 SHEETS—SHEET 1.



WITNESSES

F. G. Hachburg
P. A. Foster

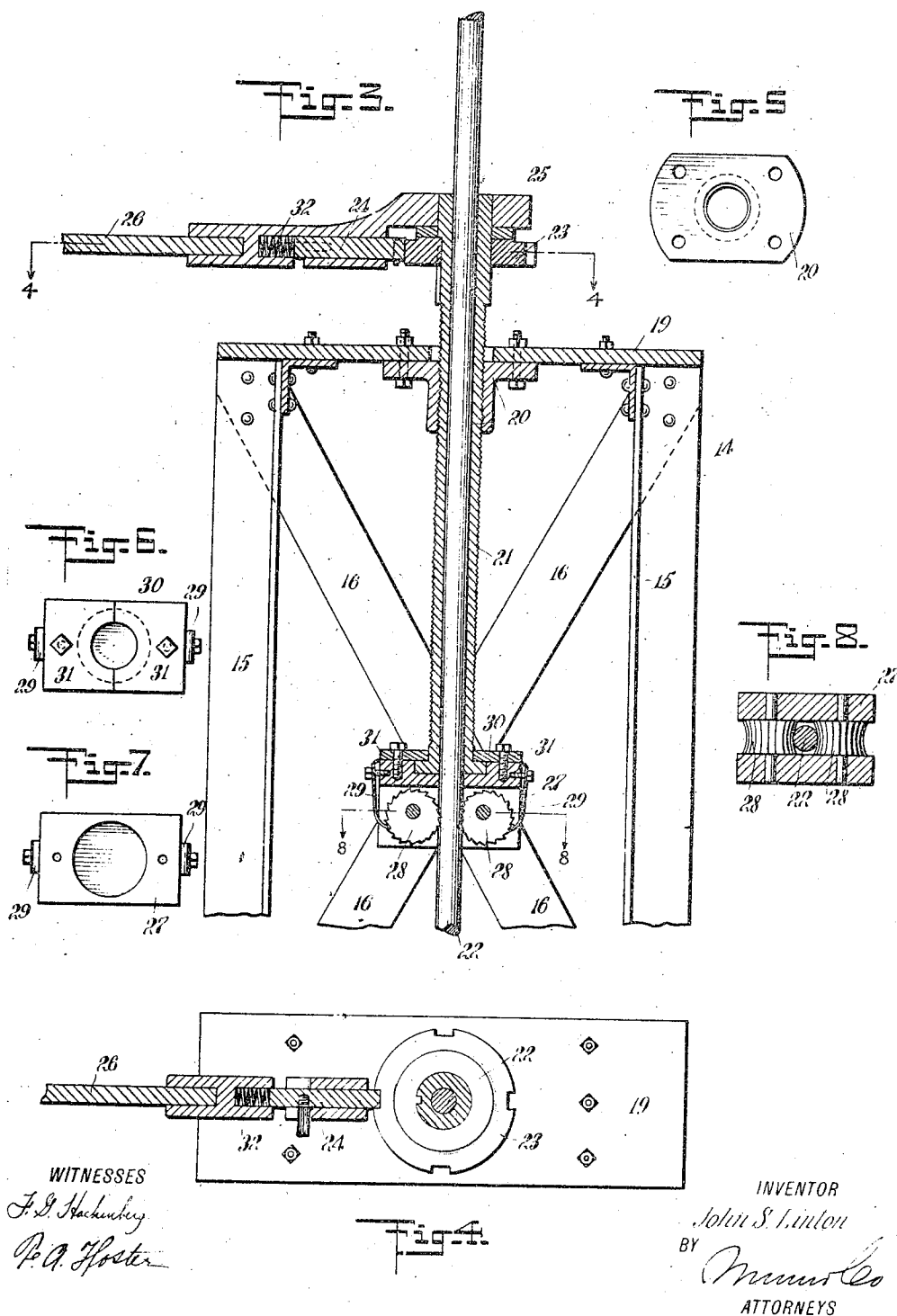
INVENTOR
John S. Linton
BY *Munroe*
ATTORNEYS

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WITNESSES
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UNITED STATES PATENT OFFICE.

JOHN S. LINTON, OF ANDERSON, INDIANA.

RAISING DEVICE FOR MOLDS.

953,476.

Specification of Letters Patent. Patented Mar. 29, 1910.

Application filed October 14, 1909. Serial No. 522,603.

To all whom it may concern:

Be it known that I, JOHN S. LINTON, a citizen of the United States, and a resident of Anderson, in the county of Madison and State of Indiana, have invented a new and Improved Raising Device for Molds, of which the following is a full, clear, and exact description.

My invention relates to a raising device for molds employed for making concrete walls or the like having reinforcing bars therein, and has for its object to provide a device for building a reinforced wall of concrete or the like, the mold thereof being adapted to be raised from and over the concrete wall after the same has sufficiently set, and constituting the form for a second section of the same wall, and so on upwardly until the said wall is completed to the desired height.

An embodiment of my invention comprises a frame secured to a mold for concrete walls or the like having reinforcing bars therein, a working platform secured to the said frame, and means for raising the said mold to a desired height over a finished wall, previously formed by the said mold, preparatory to molding another portion of the said wall over the same and forming a part thereof, with the said mold, which is raised after each succeeding wall portion has sufficiently set, until the desired height of the said wall formed by the combined mold portions molded as one wall, is reached.

My invention still further embodies certain novel features of construction, as will be hereinafter more fully described and particularly set forth in the appended claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views, and in which—

Figure 1 shows a plan view of my invention as applied; Fig. 2 is a sectional side elevation of the same; Fig. 3 is an enlarged detail sectional view, parts being broken away, showing the means for raising the mold; Fig. 4 is a sectional plan view taken on the line 4—4 in Fig. 3; Fig. 5 is a plan view of the jack head; Fig. 6 is a plan view of the clutch showing the removable cover thereof; Fig. 7 is a view of the same with the cover removed; and Fig. 8 is a sectional view taken on the line 8—8 in Fig. 3, showing the

concave clutch members with a reinforcing bar therebetween.

A mold 10 is provided, comprising sides 11, and secured thereto by means of braces 12 and fastening members 13, is a framework 14. The framework 14 comprises vertical members 15 and suitable diagonal braces 16, and secured to the said framework 14 is a working platform 17, held in horizontal position on the framework 14 by a brace 18. A cross plate 19 is provided, secured to the framework 14, and secured to the said framework by suitable bolts, is a jack head 20. A hollow raising screw 21 is slipped over a reinforcing bar 22 used for strengthening the wall, and secured to the screw 21 is a ratchet 23 engaged by a reversible pawl 24, the whole constituting a lifting jack 25, having a handle 26 thereon for operating the same. A locking clutch 27 is provided, turnably held on the screw 21 and having therein offset concave toothed wheels 28, adapted to engage the reinforcing bar 22 and securely grip the same to prevent the mold and framework from slipping downward thereon. Springs 29 are secured to the sides of the clutch 27 and help the wheels 28 to grip the reinforcing bar 22, and a removable cover 30 comprising similar parts 31 is bolted to the clutch 27. The wheels 28 are preferably concave to enable the same to more easily grip the reinforcing bar 22. The raising jack 25 is equipped with a spring 32 engaging the pawl 24 for holding the same in engagement with the ratchet 23, as will be easily seen by referring to Fig. 3.

The operation of my device is as follows: The reinforcing bar 22 is placed in the mold 11, and the raising jack 25 and parts thereof are arranged as shown in Fig. 2. Concrete is then poured into the mold and allowed to harden. When the concrete has sufficiently set, the jack 25 is operated and forces the mold to move upwardly, the jack head 20 being secured to the framework 15 of the mold 11 and being screw-threaded therein for engagement with the raising screw 21. When the mold has been raised to such a height that the lower part of the mold still covers the upper part of the finished wall, the precise operation as heretofore described is repeated, and in this way an entire wall can be easily formed with one mold, the said wall when finished hav-

ing the appearance of one complete wall. The locking clutch 27 prevents any downward movement and the wheels 28 securely grip the reinforcing bar 22. When the wall is completed the reinforcing bar is cut off at the top, the mold and raising device being ready to be used to construct another wall.

It will be understood that any number of raising jacks can be used on one mold, depending only on the length of the wall. It will be still further understood that the raising jack 25 is reversible and should the jack head 20 and the locking clutch 27 come within close proximity of each other, the said jack 25 can be operated to separate them by means of the reversible spring-actuated pawl 24 on the jack 25.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

In a raising device for molds employed for making concrete walls having reinforcing bars, the combination of a vertical frame, diagonal cross braces connecting the uprights of the said frame, a mold for molding the said wall and extending transversely to the said frame, a platform secured to the said mold and extending transversely thereto, diagonal members secured to the said frame and the said platform beneath the same for strengthening the said platform,

L-shaped supports secured at intervals to the said frame, beams extending transversely to the said frame and disposed on the said supports for rigidly holding the said mold to the said frame, a cross piece on the upper ends of the uprights of the said frame and connecting the said uprights, an internally screw-threaded bearing centrally secured on the underside of the said cross piece, a hollow externally threaded lifting screw engaging the said bearing, a notched circular plate rigidly secured to one end of the said lifting screw, a ratchet handle engaging the said plate for turning the said lifting screw, a circular lug on the other end of the said lifting screw, a casing rotatably held on the said lug, toothed wheels eccentrically mounted in the said casing and adapted to hold therebetween one of the said reinforcing bars, and springs mounted on the casing and engaging the said wheels and the said mold being adapted to move upwardly when the said ratchet handle is turned.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN S. LINTON.

Witnesses:

A. W. CONSTANTINE,
WM. G. ALTON.