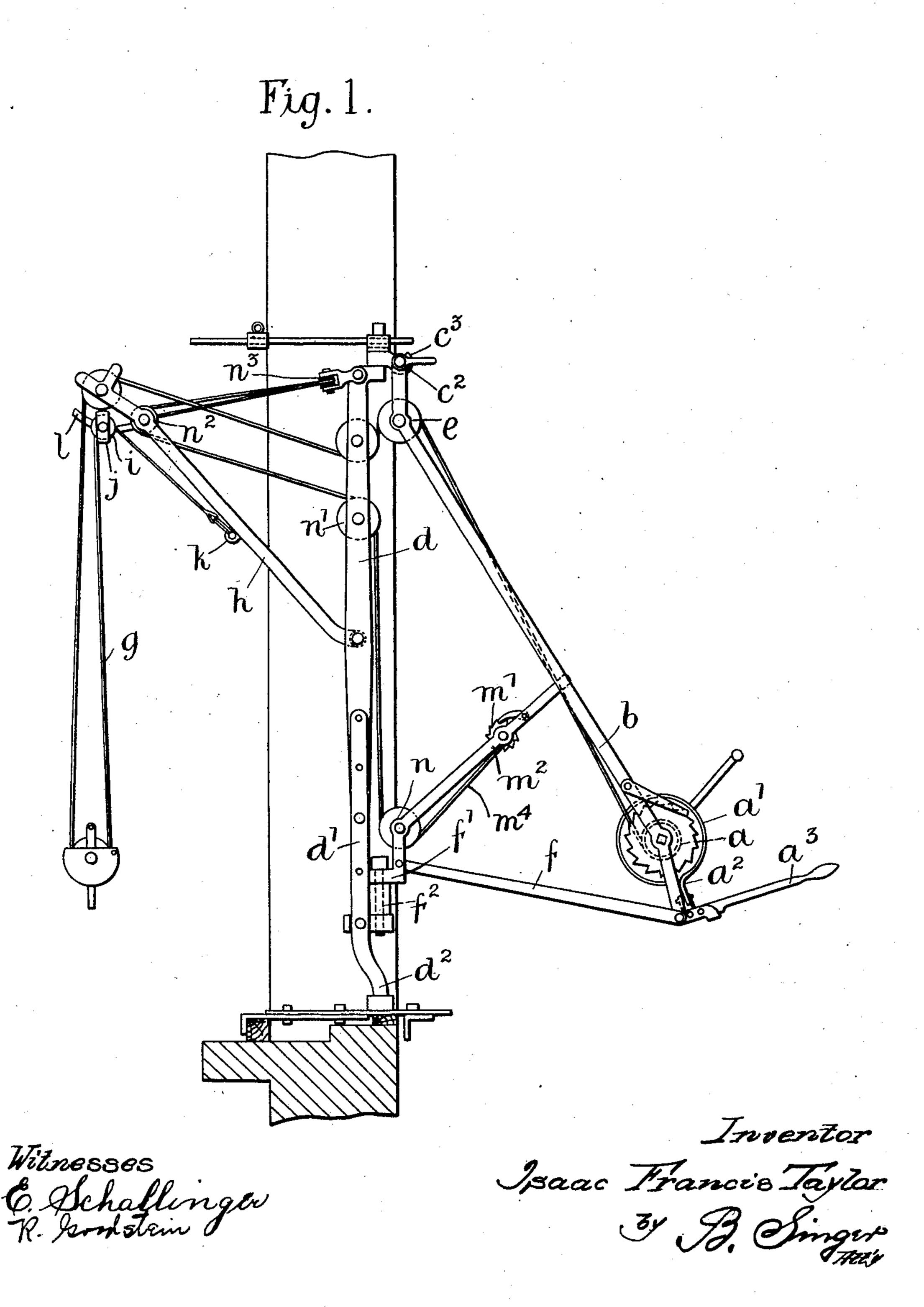
I. F. TAYLOR. CRANE.

APPLICATION FILED APR. 6, 1910.

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Patented July 18, 1911.

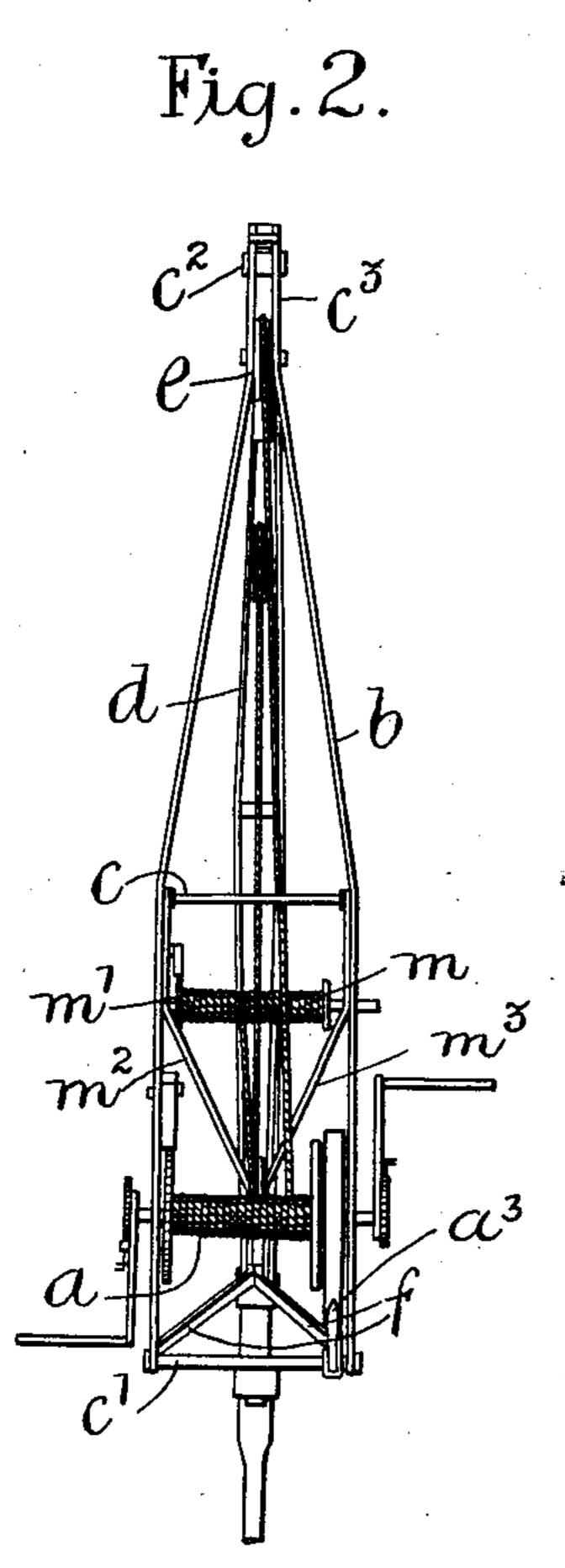


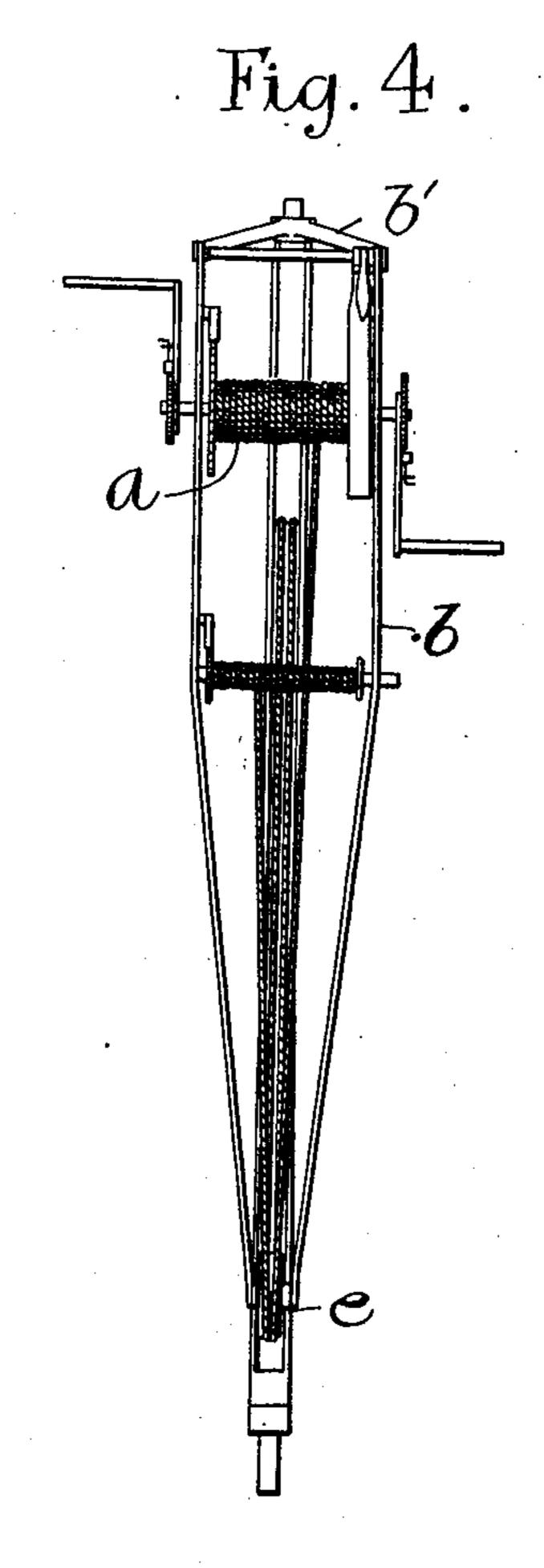
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Witnesses Edchallinger R. Swodstrin Inventor
Jeanc Francis Taylor

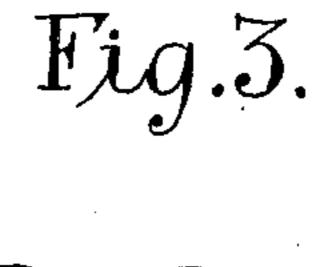
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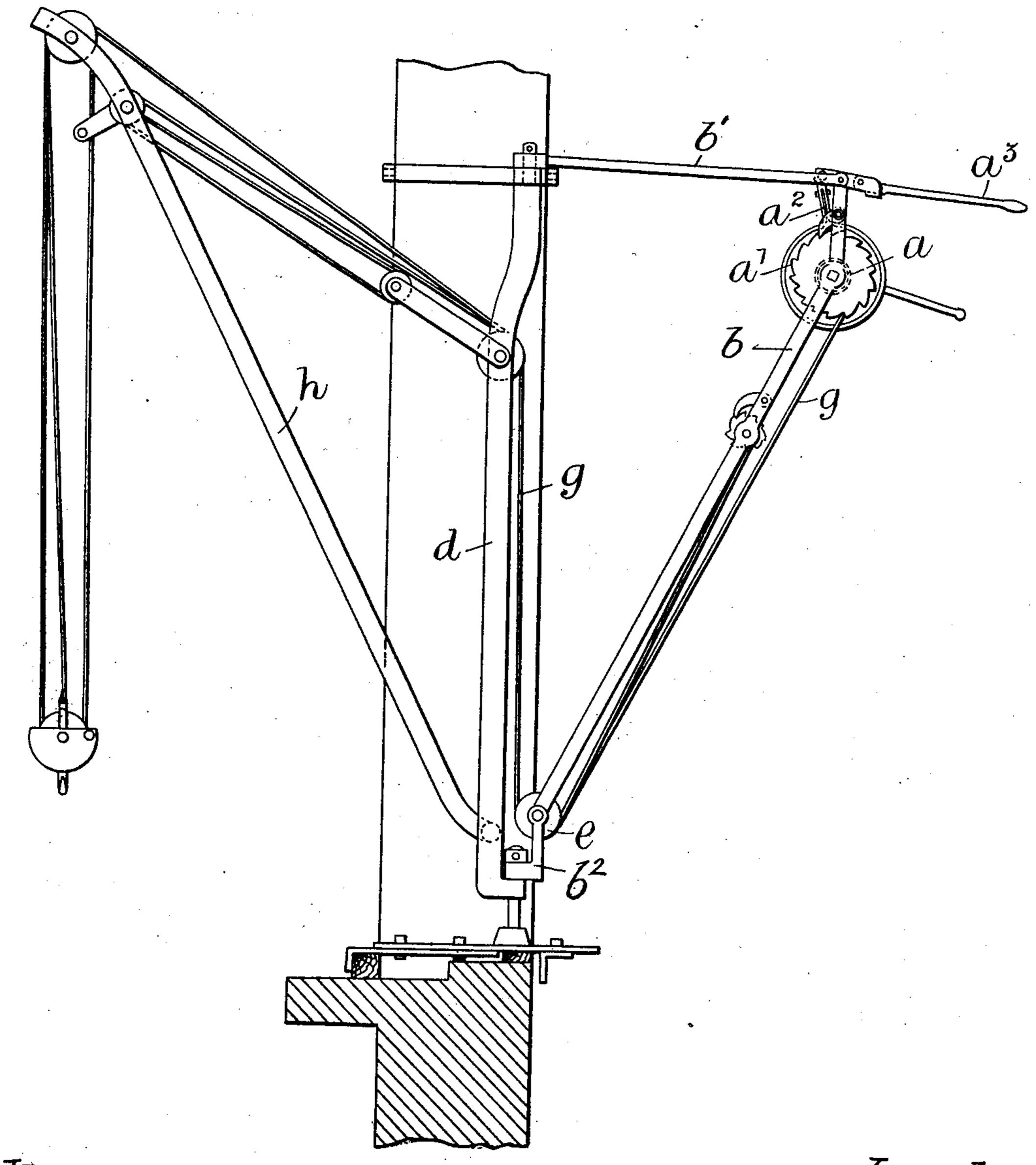
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Witnesses E. Schallinger R. Kudstini Inventor

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UNITED STATES PATENT OFFICE.

ISAAC FRANCIS TAYLOR, OF EAST DULWICH, LONDON, ENGLAND.

CRANE.

998,134.

Specification of Letters Patent. Patented July 18, 1911.

Application filed April 6, 1910. Serial No. 553,808.

To all whom it may concern:

Be it known that I, Isaac Francis Taylor, a subject of the King of Great Britain and Ireland, residing at 5 Upland road, East Dulwich, London, England, have invented certain new and useful Improvements in Cranes, of which the following is a specification.

This invention relates to cranes more es-10 pecially applicable to windows, doors, or similar openings, at the upper floors of buildings for raising or lowering articles of furniture or other goods, or to vehicles for loading and unloading the same and com-15 prising when applicable to a window or the like a crane post pivoted at its upper end in a cross bar readily adjustable to openings of different widths, and to walls of different thicknesses, and pivoted at its lower end in a 20 foot plate, also adjustable to sills or walls of different thicknesses, a jib fulcrumed to the crane post and connected at its upper end to a small adjusting barrel in the crane post, and a winch for raising or lowering 25 the load. Heretofore the winch was carried by a rearwardly extending bracket, bolted to the crane post, which by coming in contact with the interior of the wall, limited the horizontal angle through which the crane 30 could be turned on its bearings to swing the jib and load inward toward the window or other opening.

Now this invention has for one of its objects to enable the jib to be swung inward through a much greater angle than before so that goods after being raised can be readily carried by the jib through the window or opening and deposited inside or likewise be lifted inside, swung out and lowered.

A further object of the invention is to enable the cross bar to be readily adjusted and fixed in position in cases where the windows have internal projections such as shutters at the sides in such a manner that the crane post can always be vertically mounted.

Other objects are to provide an improved support for the crane when applied to a van or lorry, an improved crank or lever handle with brake for use on the winch and a readily detachable snatch block.

According to this invention the winch frame or bracket is pivotally connected with the crane post so that the winch frame and winch can be swung about a vertical axis on the crane post, or the crane post swung about a vertical axis on the winch frame to

prevent any of the parts fouling the adjacent walls as the jib is swung inside.

In the accompanying drawings Figures 1 and 2 are side and rear elevations respectively of a crane, constructed according to this invention, Figs. 3 and 4 are similar views to Figs. 1 and 2 showing a slightly modified form of construction.

In the form of the invention shown in 65 Figs. 1 and 2 the winch barrel a which is made of sheet metal for lightness is mounted in the lower end of a substantially triangular frame b, the converging sides of which are connected by cross stays c c' above and 70 below the barrel and are connected by a bolt c^2 at the upper end by which the frame is detachably suspended from a hook c^3 pivoted to turn horizontally on the top of the crane post d. A guide pulley e for the 75 winch rope is also mounted in the top of the frame b.

At the bottom of the frame b are stays f connecting the frame with a hinge eye or socket f' detachably mounted on a pin or 80 pivot f^2 vertically above the lower bearing pivot of the crane post d, so that the winch frame and crane post d turn about the same vertical axis.

In order to vary the height of the crane 35 post d when desired a detachable extension d' is arranged to receive the lower end of the post, such extension comprising two upwardly extending arms arranged to receive the post between them, and terminating in a 90 pivot d^2 at the lower end.

Instead of hooking the fixed end of the rope or chain g directly to a shackle on the end of the jib h it is passed over a pulley i suspended in an open sided loop j at the 95 end of the jib and secured to a lug, bar or other device at a point k lower down on the jib. This arrangement enables the load to be hauled up closer to the top of the jib than hitherto. A guide finger l is arranged 100 to prevent the rope being accidentally pulled sidewise off the pulley as the jib is swung around.

A barrel m provided with a ratchet and pawl m' for adjusting the jib is supported 105 between frame stays m^2 , m^3 , its rope or chain m^4 passing around pulleys n, n', n^2, n^3 and being finally attached to the jib.

In a slightly modified form of construction Figs. 3 and 4 the winch frame b is in- 110 verted, the winch barrel a being at the upper end and the guide pulley e for the rope g

at the lower end. Hinge brackets or stays | on the crane post and provided with a winch b' at the top and a lug b^2 at the bottom of | mechanism connected with the block and the frame b are detachably mounted on the | tackle for raising and lowering the load. pivots at the top and bottom of the crane 5 post d.

What I claim and desire to secure by Let-

ters Patent is:—

1. A window crane mechanism comprising in combination, a crane post, devices 10 pivotally supporting said post on the winabout vertical axes, a jib pivotally mounted on said post and provided with a block and tackle for the load, means for adjusting the 15 jib with respect to the post, and a winch frame pivotally mounted on the crane post and provided with a winch mechanism connected with the block and tackle for raising and lowering the load.

20 2. A window crane structure comprising in combination, a crane post, devices pivotally supporting said post on the window structure to permit the post to swing about vertical axes, a jib mounted on said post and provided with a block and tackle for the load, and a winch frame pivotally mounted

3. A window crane mechanism compris- 30 ing in combination, a crane post, devices pivotally supporting said post on the window structure, said post having a jib with a block and tackle thereon, a winch frame pivotally mounted on axes alining with the 35 pivotal axes of said post, and a winch on dow structure to permit the post to swing | said frame for operating said block and tackle.

> 4. A window crane mechanism comprising in combination, a crane post, devices 40 pivotally mounting the post upon the window structure, a jib for said post, a winch frame pivotally mounted on said post, and means disposed on said winch frame for adjusting said jib.

In testimony whereof I have affixed my signature, in presence of two witnesses.

ISAAC FRANCIS TAYLOR.

Witnesses:

RIPLEY WILSON, HERBERT D. JAMESON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."

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