No. 696,672. Patented Apr. 1, 1902.

J. M. GLICKMAN.

PAPER HANGING MACHINE.

(Application filed Feb. 3, 1902.)

(No Model.) 3 Sheets—Sheet 1.

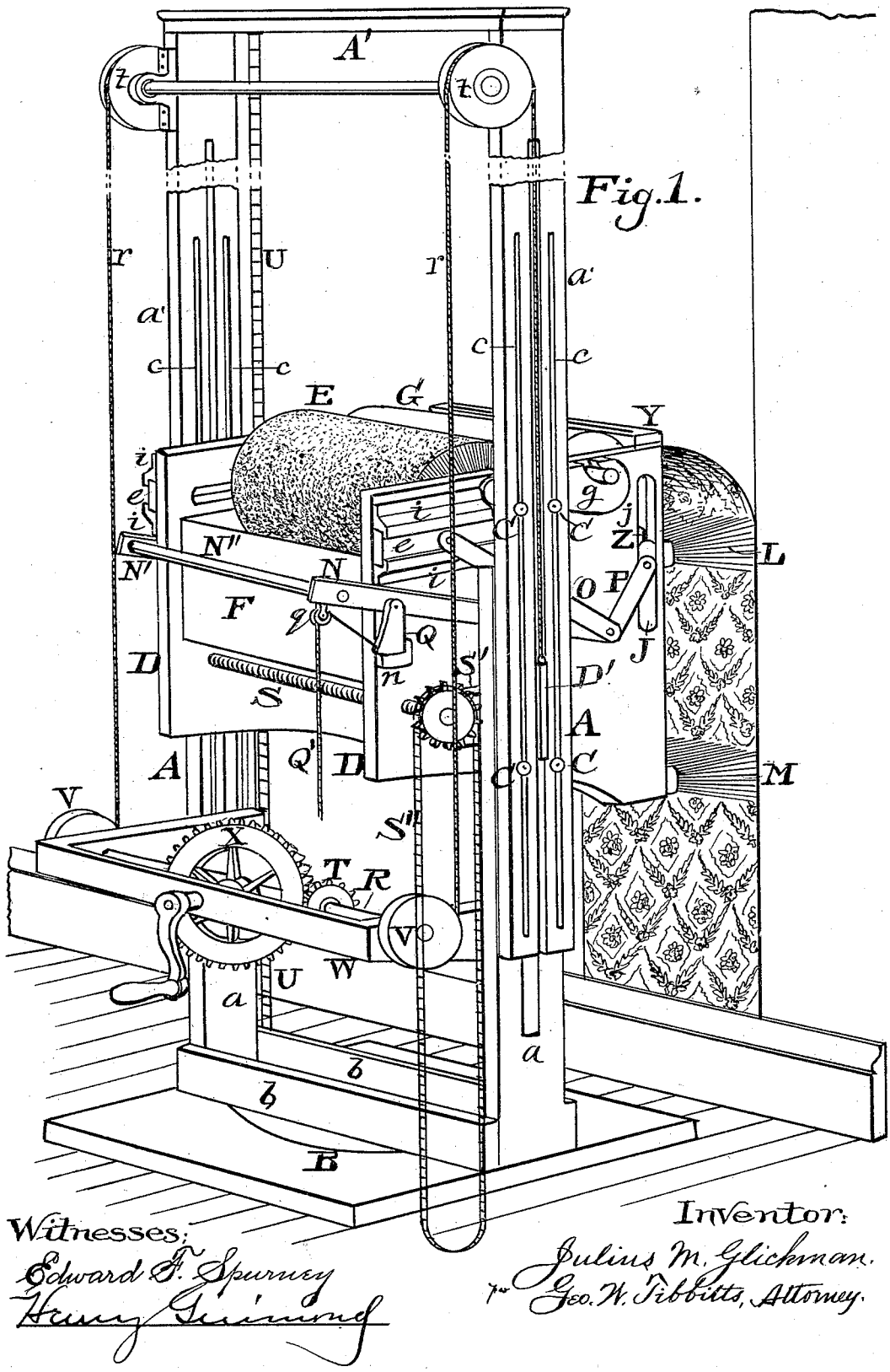


Fig. 1.

Witnesses;
Edward F. Spurrey
Henry Simmond

Inventor:
Julius M. Glickman.
by Geo. W. Tibbitts, Attorney.

THE NORRIS PETERS CO. PHOTO-LITHO., WASHINGTON, D. C.

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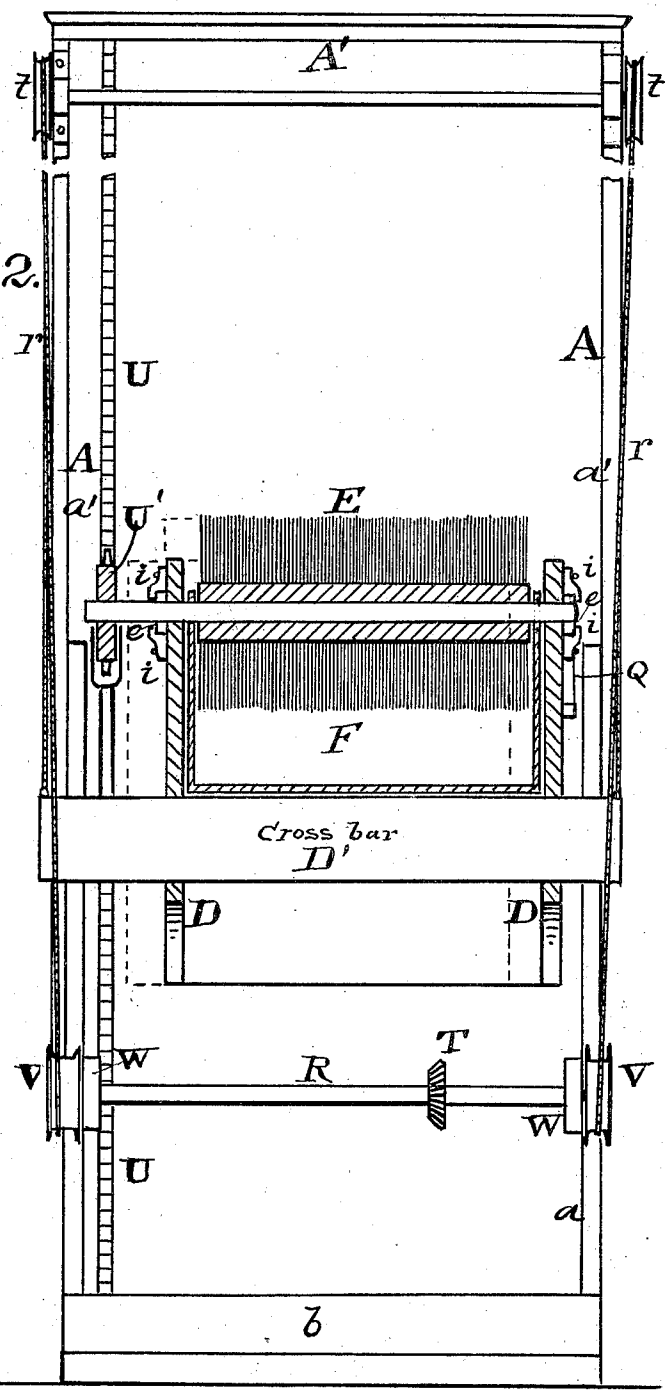
PAPER HANGING MACHINE.

(Application filed Feb. 3, 1902.)

(No Model.)

3 Sheets—Sheet 2.

Fig. 2.



Witnesses:

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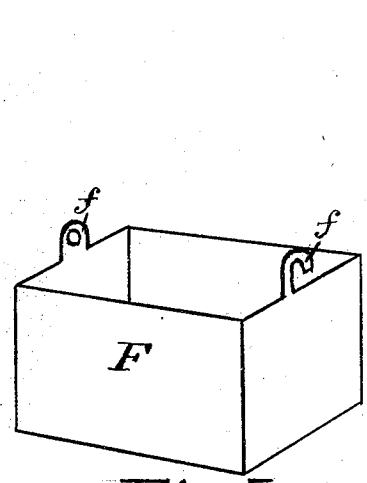


Fig. 5.

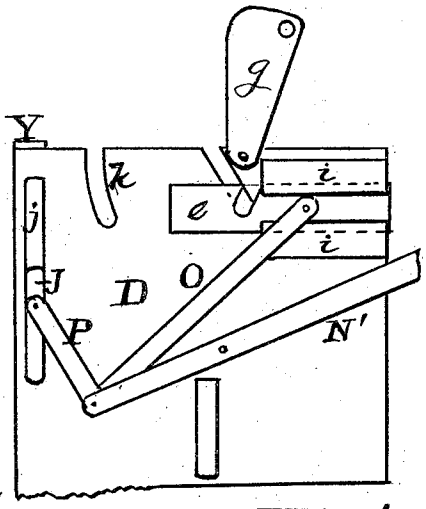


Fig. 4.

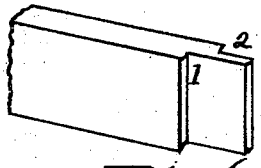


Fig. 6.

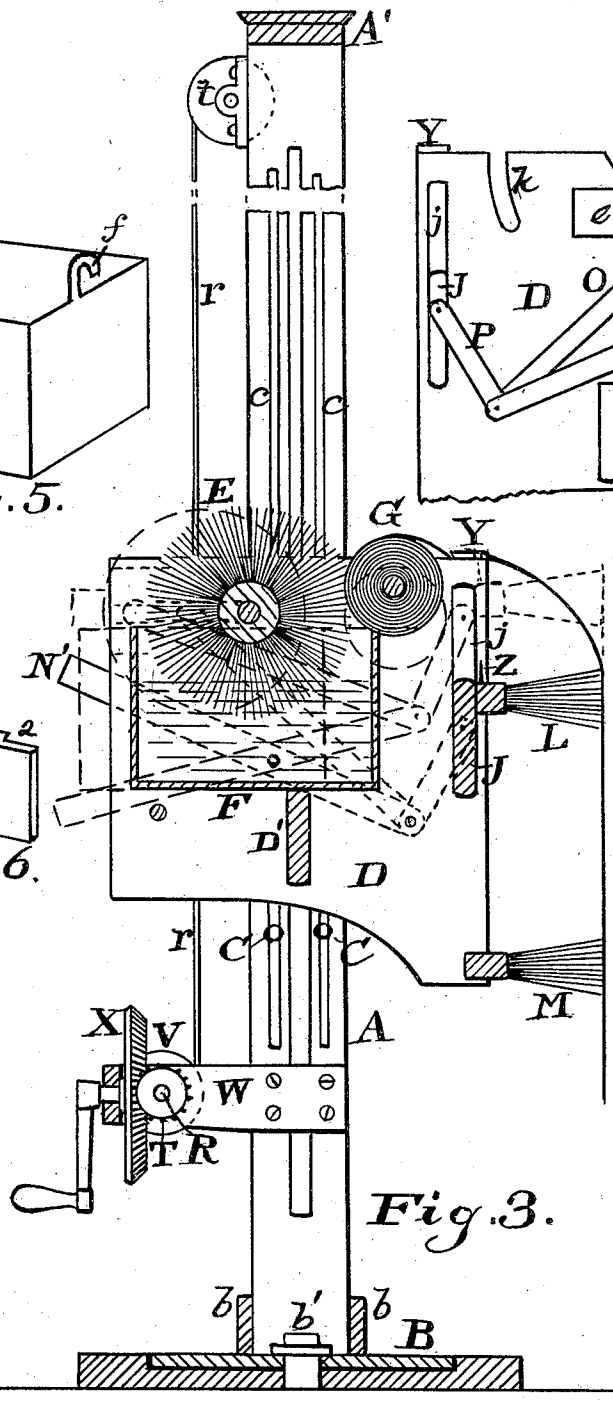


Fig. 3.

Witnesses:

Edward F. Spurney

Henry Gumond

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JULIUS M. GLICKMAN, OF CLEVELAND, OHIO.

PAPER-HANGING MACHINE.

SPECIFICATION forming part of Letters Patent No. 696,672, dated April 1, 1902.

Application filed February 3, 1902. Serial No. 92,266. (No model.)

To all whom it may concern:

Be it known that I, JULIUS M. GLICKMAN, a citizen of the United States of America, and a resident of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Wall-Paper-Hanging Machines, of which the following is a specification.

This invention relates to wall-paper-hanging machines; and it consists in the new construction and combinations of elements comprising such machines, having for its object to provide means for greatly facilitating and economizing the labor and expense in performing such work.

The invention consists of a carriage arranged to travel on a track and carrying the roll of paper, a paste-holder, a rotary paste-brush, pressure-brushes, a paper-severing knife, and means for manipulating these several parts in rapid conjunction and automatically.

The apparatus is illustrated in the accompanying drawings, in which—

Sheet 1, Figure 1, is a perspective view of the apparatus as seen in working order. Sheet 2, Fig. 2, is a side elevation showing the carriage and paste-brush in vertical section. Sheet 3, Fig. 3, is a vertical section through the carriage and its traversing track and support. Fig. 4 is a right-hand side elevation of the carriage, showing the means by which the roll of paper and the paste-brush and paste-box can be placed and removed. Fig. 5 is a detached view of the paste-box. Fig. 6 is a view of one end of the carriage-supporting cross-bar, showing the form of the ends that slide in the slots of the track-supports.

A A, Figs. 1, 2, and 3, are adjustable tracks or supports comprising two slotted bars a and a', the middle slot being the one in which the carriage travels. The slot in bar a is wider than that in a' to provide for the thick portion 1 of cross-bar, Fig. 6, while the thin portion 2 shall fit in the narrower slot in a'. The shoulders of the parts 1 and 2 bear against the inside surfaces of said tracks and prevent said cross-bar from shifting endwise in the tracks. The track-pieces a a are joined by cross-pieces b b and a disk B. Said disk B fits in a circular seat in the base-board, in which is fixed a center pin b', upon which the track may be turned for adjustment of the apparatus to the wall. The track-pieces a' a' are joined by a cross-head A'. In the said pieces a a' are also made two narrow slots c c, one at each side of the center slots, and through said side slots are placed bolts C C, by means of which said pieces may be adjusted to extend or shorten the tracks for the purpose of accommodating them to the height of the room in which it is to be used.

The carriage consists of two side plates D D, fixed and supported on the cross-piece that rides in the slotted tracks. Said plates D D support the main working parts of the machine.

E is a paste-brush having its journals supported in two slide-pieces e e', held in the guides i i on the outside faces of the plates D D.

F is a paste-box suspended by its ears f f' on the journals of the brush E.

G is a roll of wall-paper held on a roller journaled in the ends of the arms g g', pivoted to the outside of the plates D D. Slots k k are made in the top edges of the plates D D, which allow for vertical play of the paper-roll in the operations of the machine.

J is a cross-bar held in the vertical slots j j in the plates D D. To the said cross-bar J is attached a brush L.

M is a permanent brush attached to the lower corners of the plates D D. The purpose of these brushes is to act as pressure-bearers in the operations of putting the paper on the wall, as seen in Fig. 1.

N N' are levers fulcrumed on the sides of the box-plates D D and are joined at their outer ends by a cross-bar N''. To said levers are attached links O O', connected with the slide-pieces e e', by means of which said slide-pieces are pushed outward for moving the paste box and brush back from roll of paper whenever desired.

P P' are also links connecting the levers N N' with the sliding-brush cross-bar J, by means of which said brush may be moved upward simultaneously with the movements of the paste brush and box.

Q is a pawl pivoted to the lever N and resting on a stop-block n on the plate D for the purpose of holding the levers from moving when not required.

Q' is a cord or rope attached to the pawl Q,

passing over a pulley *q* on the lever N, by means of which the pawl Q may be pulled outward and the levers pulled down for the purpose of manipulating the brushes and paper-roll.

S is a screw fixed in the plates D D, its right-hand end held in an arm S′ on the support *a* for the purpose of shifting and holding the carriage on the cross-bar to adjust the carriage to have the paper being put on the wall exactly join the edge of the sheet last put on. S″ is an endless chain playing on a sprocket-wheel head on the end of said screw S, by means of which the screw may be turned when the carriage is up in the upper part of the track.

U is a chain extending from the top bar of the frame-support down to the bottom, and U′ is a loose sprocket-wheel on the shaft of the brush E, whose teeth mesh in the chain U for the purpose of giving rotary motion to the paste-brush as the same is traveling upward.

In a frame W, attached to the supports *a a*, is supported a shaft R, having on its ends grooved wheels V V, to which are attached ropes *r r*, which pass up and over pulleys *t t* on a shaft journaled in brackets at the top of the frame-support *a′*, thence down, and having their ends attached to the ends of the carriage cross-bar.

T is a bevel-pinion on the shaft R, and X is a bevel-gear journaled in the frame W and meshing with said bevel-pinion and having a hand-crank on the outside. The purpose of this is for hauling the carriage upward in the operations of the machine.

Z is a knife attached to the top side of the sliding brush-bar J, which when said brush-bar is pushed upward will cut the paper by contacting with the slot in the bar Y on the top corners of the carriage-plates D D. The brush L also moves upward at the same time and finishes putting on the paper.

Having described my invention, what I claim is—

1. A wall-paper-hanging machine consisting of side plates D D, a supporting cross-bar D′, a removable rotatable paste-brush E, journaled in slides *e e′* on the sides of said plates D D, a removable paste-box F suspended on the journals of the paste-brush, a movable cross-bar J playing in slots *j j* in the side plates D D, a brush L carried by said cross-bar J, arms *g g′* pivoted to the sides D D carrying paper-roll holder, a permanent brush M attached to lower corners of plates D D, levers N N′ fulcrumed on the sides of the plates D D, links O O′ connecting said levers with the sliding brush-holders *e e′*, the links P P′ connecting the levers N N′ with the sliding brush-holding cross-bar J, a knife Z on said sliding cross-bar, and a slotted cross-bar Y on upper corners of the plates D D, all constructed and combined to operate substantially as and for the purpose set forth.

2. The wall-paper-hanging machine comprising the side supporting-plates D D supported on the cross-bar D′, a removable and rotatable paste-brush E, journaled in slides *e e′* on the plates D D, a removable paste-box F suspended on the journals of the brush E, a movable cross-bar J playing in slots *j j* in the side plates D D, a brush L carried by said cross-bar J, arms *g g′* pivoted to the sides D D carrying paper-roll holder, a permanent brush M attached to lower corners of the plates D D, levers N N′ fulcrumed on the side plates D D, links O O′ connecting said levers with the sliding brush-holders *e e′*, the links P P′ connecting the levers N N′ with the sliding brush-holding cross-bar J, a knife Z on said sliding cross-bar J, and a slotted cross-bar Y on the upper corners of the plates D D, in combination with the upright adjustable slotted tracks A A, frame W on pieces *a a* of the uprights, shaft R supported in said frame, grooved wheels V V on the ends of said shaft, bevel-pinion T on said shaft, a bevel-gear X journaled in the frame W and provided with a hand-crank ropes *r r* attached to said wheels V V and passing up over pulleys *t t* at the top of frame A A thence down and attached to the ends of cross-bar D′, and the vertical chain U attached to top and bottom of frame A A, and the sprocket-wheel U′ on the paste-brush shaft meshing with said chain, all constructed and combined to operate substantially as and for the purpose set forth.

Signed by me at Cleveland, Ohio, this 31st day of January, 1902.

JULIUS M. GLICKMAN.

Witnesses:
GEO. W. TIBBITTS,
HENRY GUIMOND.