

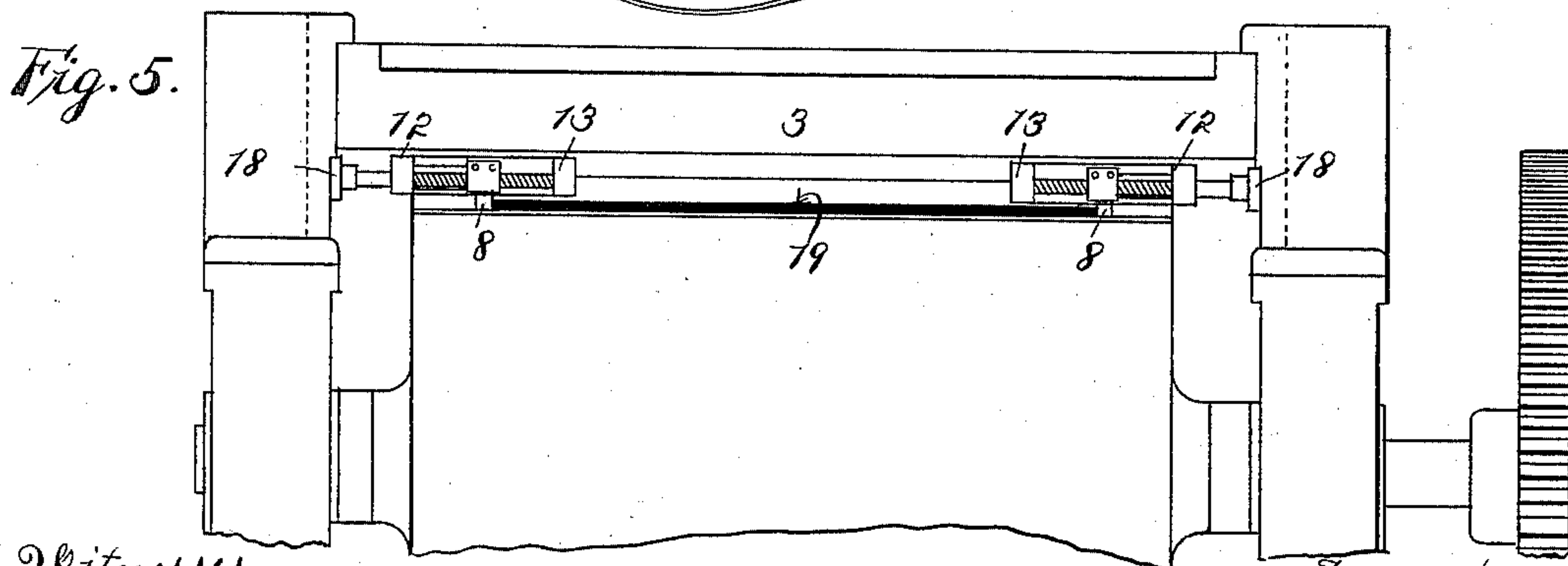
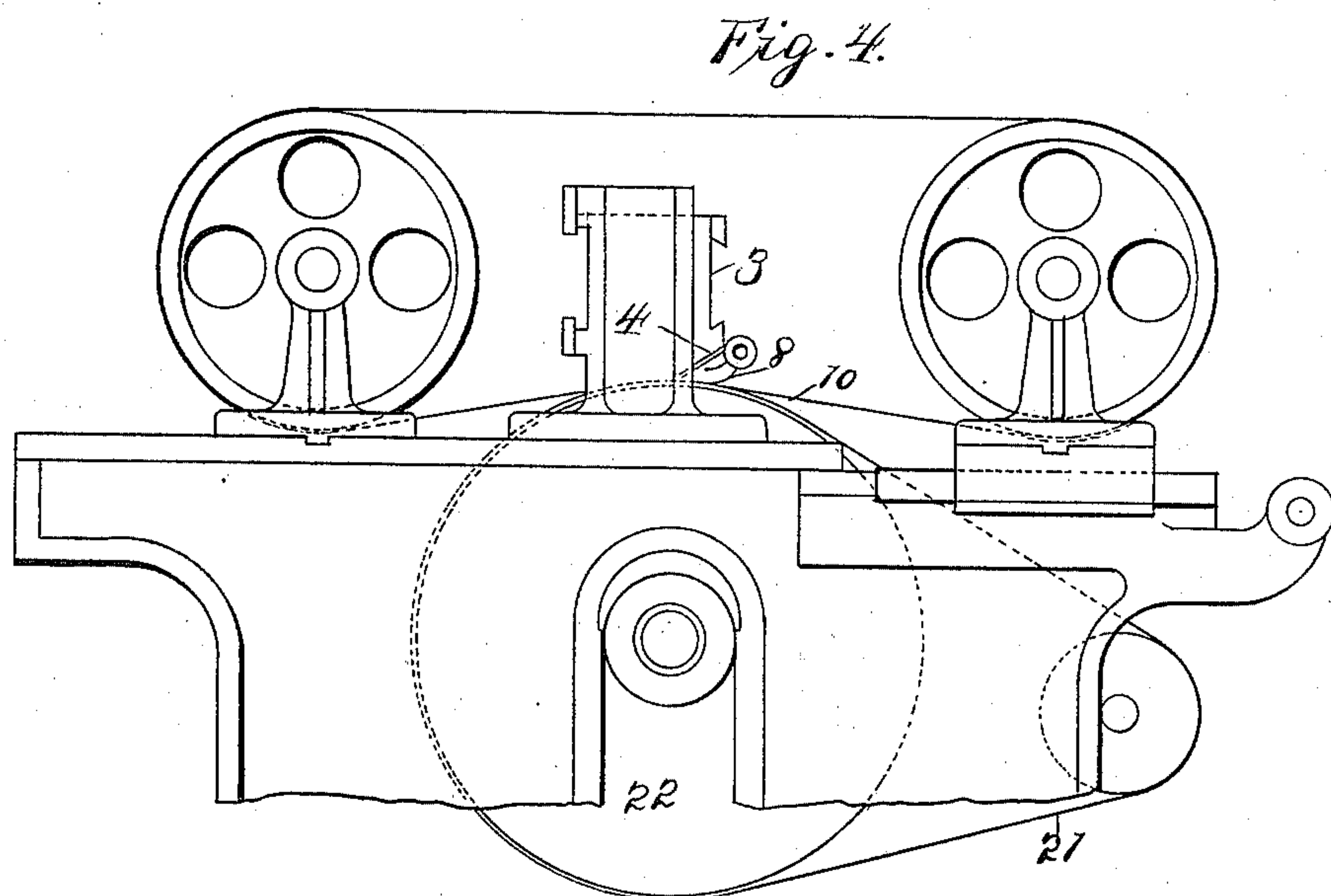
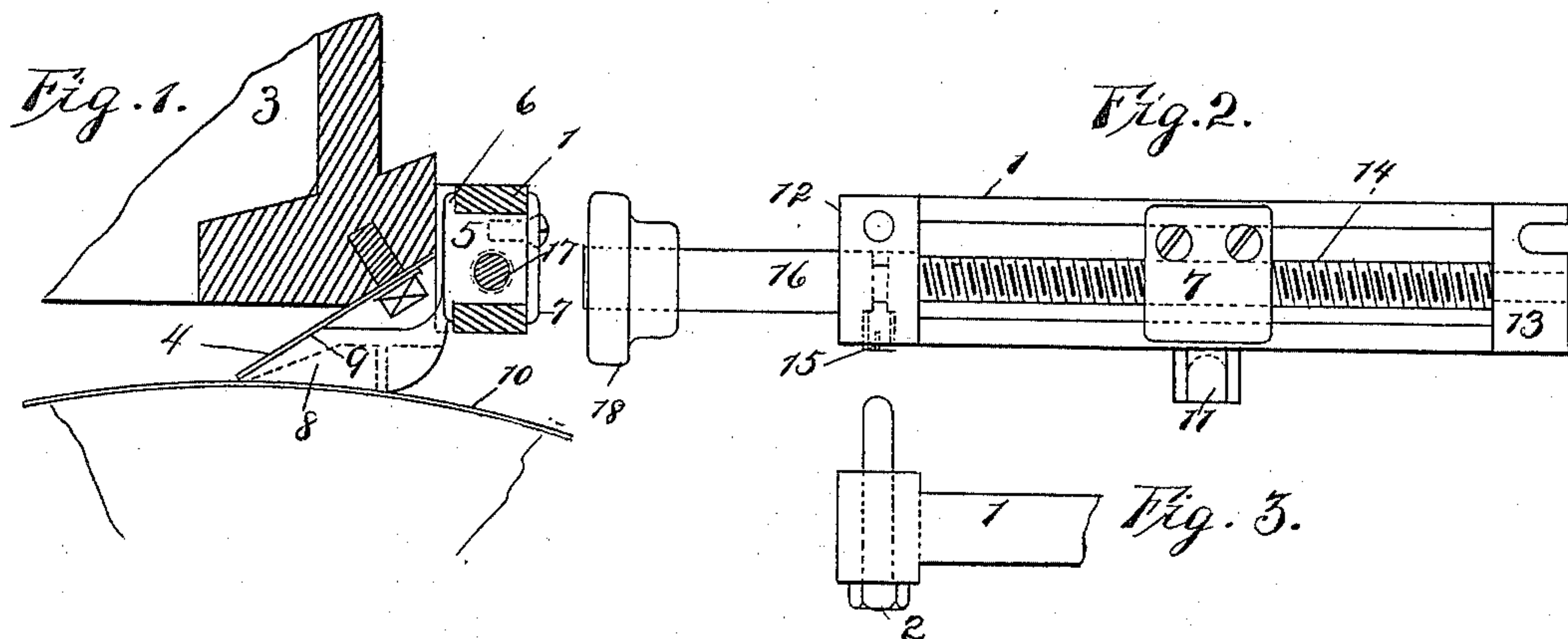
(No Model.)

2 Sheets—Sheet 1.

S. H. SHARP.
FABRIC PRINTING MACHINE.

No. 579,016.

Patented Mar. 16, 1897.



Witnesses
F. C. Barry
C. M. Werle

Inventor
Samuel H. Sharp
per O. E. Duff
Attorney.

(No Model.)

2 Sheets—Sheet 2.

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Fig. 6.

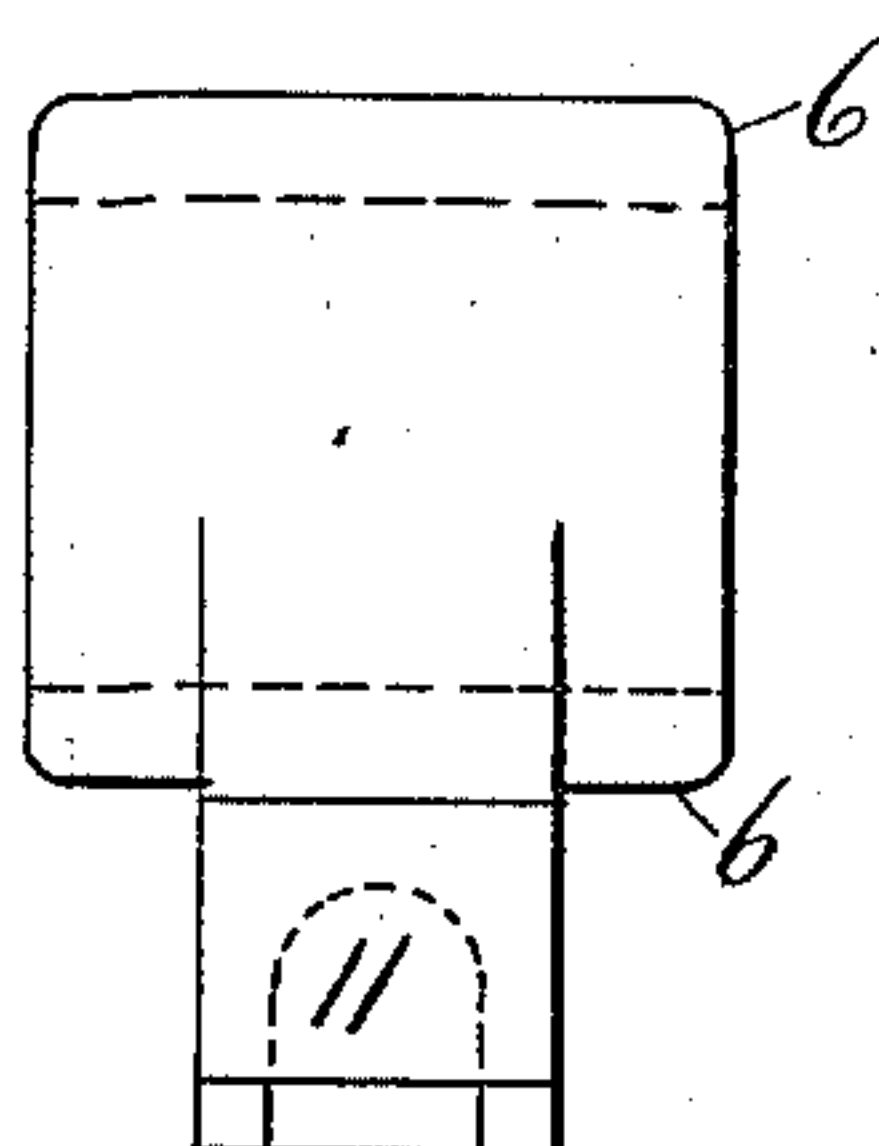


Fig. 7.

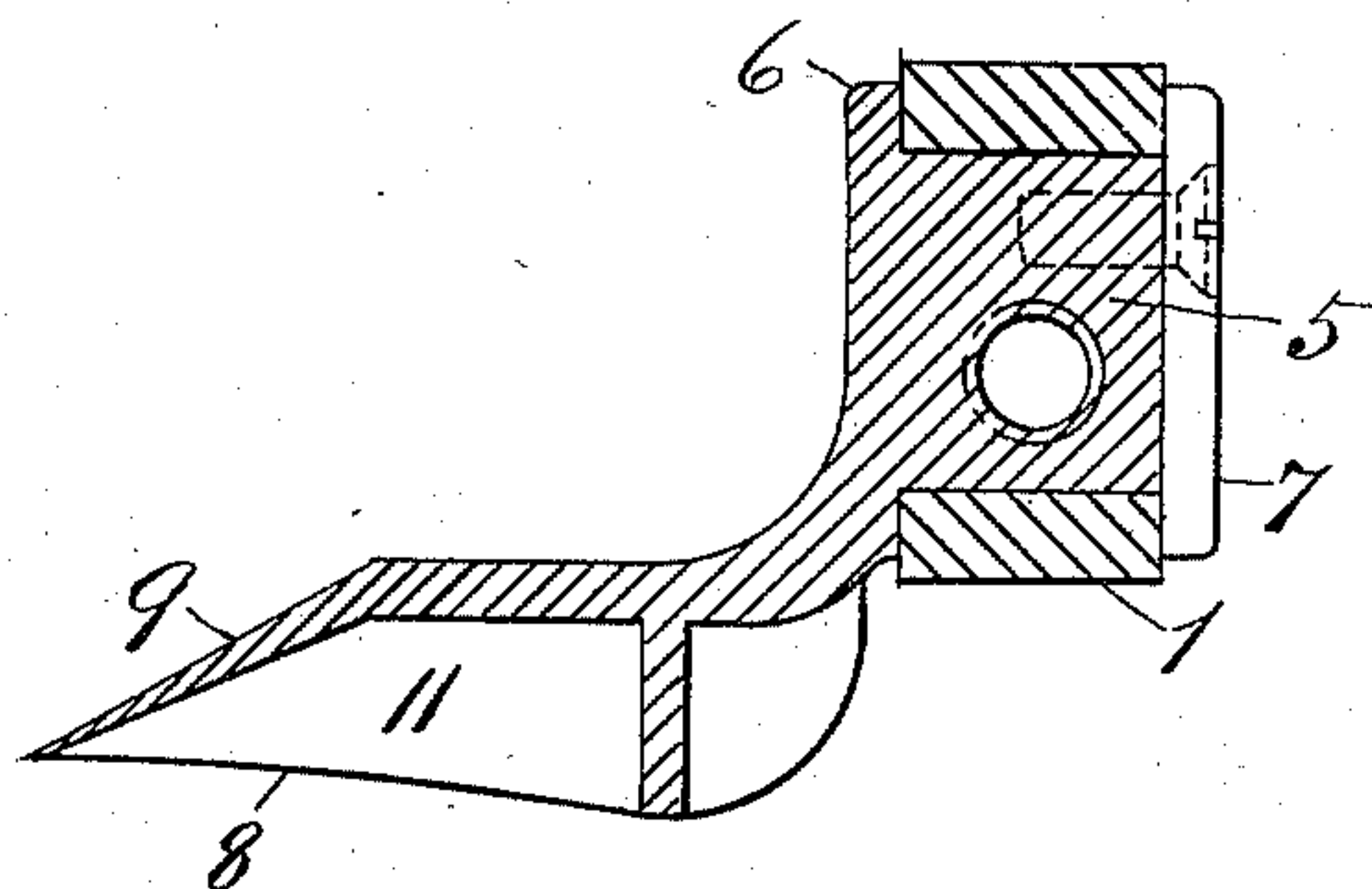
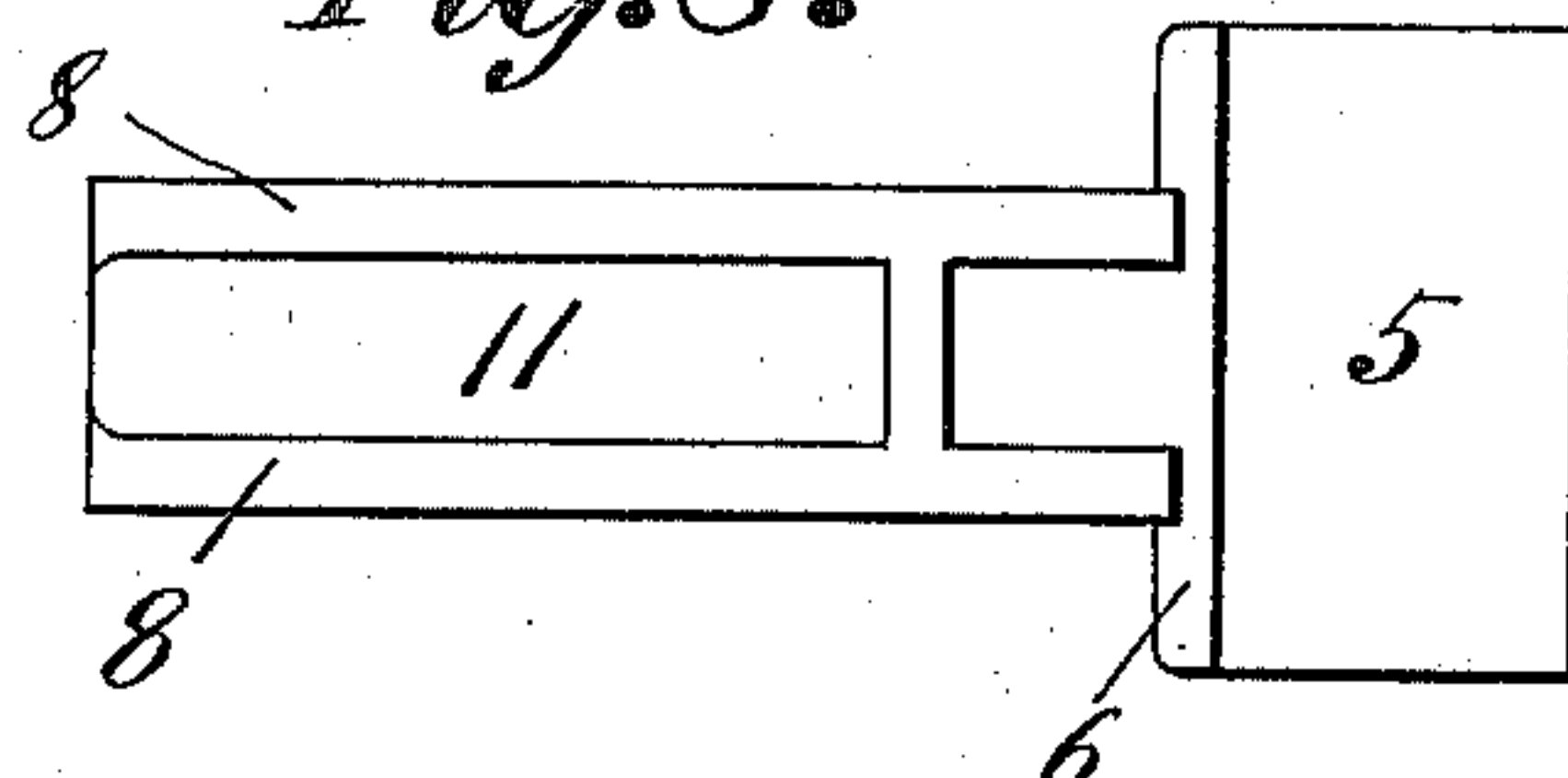


Fig. 8.



Witnesses
Geo M. Weslé
O. E. Duff

per

Inventor.
S. H. Sharp
O. E. Duff
Attorney

UNITED STATES PATENT OFFICE.

SAMUEL HOLT SHARP, OF LEEDS, ENGLAND.

FABRIC-PRINTING MACHINE.

SPECIFICATION forming part of Letters Patent No. 579,016, dated March 16, 1897.

Application filed March 19, 1896. Serial No. 583,989. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL HOLT SHARP, a subject of the Queen of Great Britain and Ireland, residing at Leeds, in the county of York, England, have invented Improvements in Fabric-Printing Machines, of which the following is a specification.

This invention relates to machines in which a bronzing liquid is used for producing patterns or designs on fabrics by means of an endless stencil-sheet, between which and an endless blanket the fabric to be treated is passed and through which the bronzing liquid is pressed by a fixed spring-presser; and it has for its object to prevent such bronzing liquid from flowing laterally on the stencil-sheet beyond the patterns cut or engraved there-through or beyond the edges of the fabric and thereby spoiling the fabric or the blanket. For this purpose I provide the machine with means hereinafter called "plows," constructed and arranged as I will now proceed to explain by reference to the accompanying drawings, wherein—

Figure 1 shows a cross-section through the presser of a fabric-printing machine of the kind referred to provided with plows according to this invention. Fig. 2 is an elevation of one of the plows and means for supporting and adjusting the same. Fig. 3 is a partial plan of the supporting means. Fig. 4 is a partial side elevation of a fabric-stenciling machine provided with plows according to this invention, and Fig. 5 is a partial front elevation thereof. Figs. 6, 7, and 8 are respectively an end view, longitudinal section, and plan showing to a larger scale than the remaining figures one of my plows and attached parts.

The apparatus illustrated comprises a guide-frame 1, consisting of a pair of connected transverse bars, Figs. 1, 2, and 3, secured by means of screws 2, Fig. 3, to the stock 3, on which is mounted the fixed spring-presser 4. In the frame 1 is placed a slide-block 5, provided with flanges 6, which bear against the rear faces of the said transverse bars, and also with a cap 7, which bears against the front faces thereof.

8 is the plow, which is attached to or formed in one with the slide-block 5. The upper

part 9 of the plow fits against the presser 4, and its under surface fits against the endless stencil-sheet 10, the plow being furnished in its under side with a receptacle 11, which is charged with a lubricant to prevent the plow from damaging the stencil-sheet.

The end portions 12 and 13 of the frame 1 form bearings for a screw 14, which is free to turn, but is prevented from moving endwise by the point of a set-screw 15, which engages in an annular groove 16, formed in the said screw. The screw 14 works in a corresponding screw-threaded hole 17 in the slide-block 5, which can consequently be moved endwise in either direction by suitably rotating the screw 14 by means of its hand-wheel 18.

A plow such as described is secured on each end of the stock 3, as shown in Fig. 5. The plows are set by means of their hand-wheels 18 at such a distance apart that they will not allow the bronzing liquid 19 to extend either beyond the engraved or cut-out portion of the stencil-sheet or beyond the edges of the fabric under treatment when such fabric is of less width than the engraved or cut-out portion of the stencil-plate.

20 is the endless blanket, between which and the stencil-sheet the fabric to be printed is pressed, and 21 is the driving-roller, over which the stencil-sheet, fabric, and blanket work and which is forced toward the presser 4, so as to compress the fabric partly into the openings in the stencil-sheet.

What I claim is—

In a fabric-printing machine, of the kind herein referred to, the combination with an endless stencil-sheet, an endless blanket, and a presser, of laterally-adjustable plows mounted near the ends of said presser and each provided with a lubricant-receptacle in its under side, substantially as herein described for the purpose specified.

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

SAMUEL HOLT SHARP.

Witnesses:

HAMILTON TURNER,

ROBERT EDWIN PEACOCK CRAVEN.