

(No Model.)

C. H. WILLCOX & G. H. NOBLE.

DIRT GUARD FOR SEWING MACHINES.

No. 392,088.

Patented Oct. 30, 1888.

FIG - I -

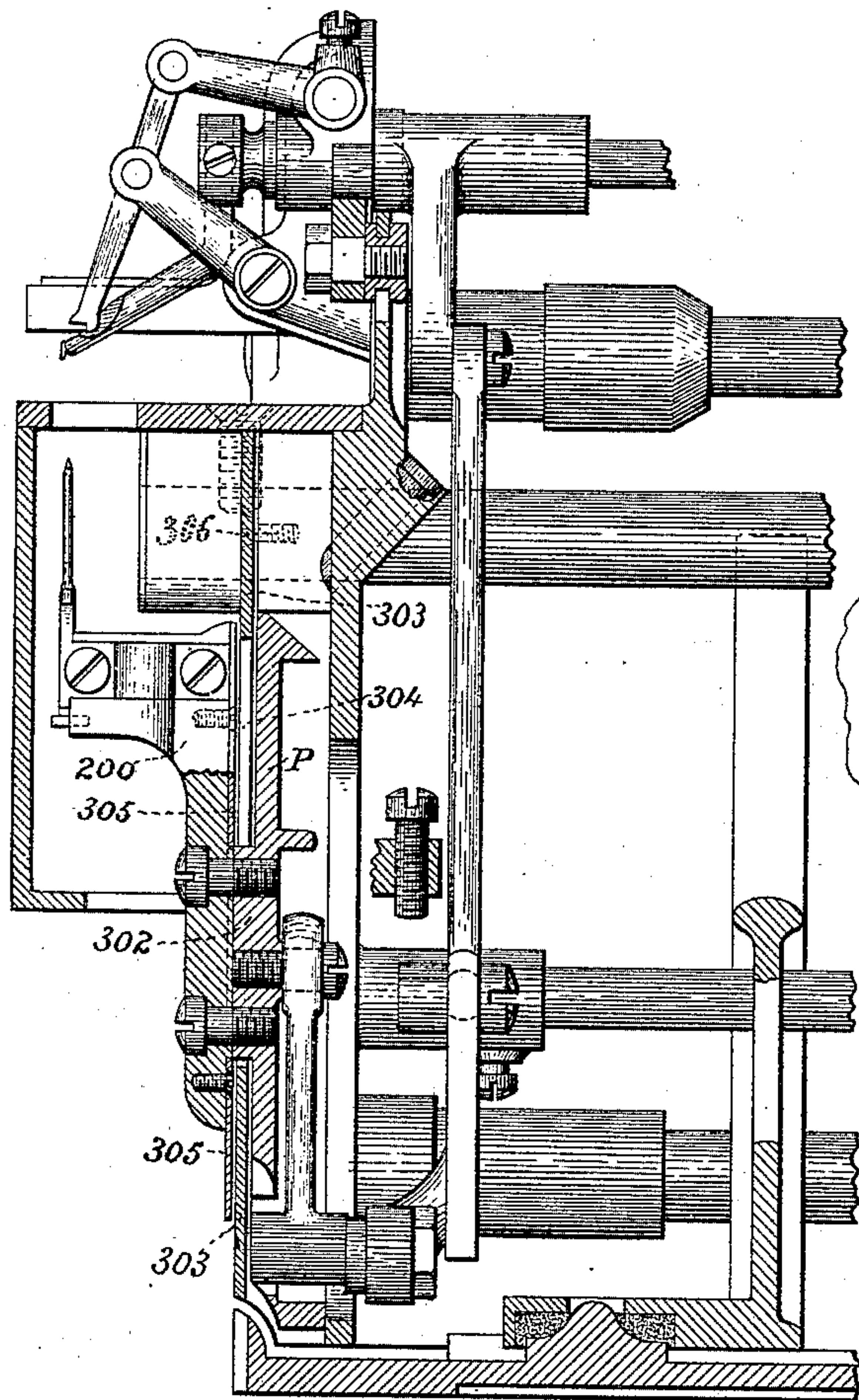


FIG - II -

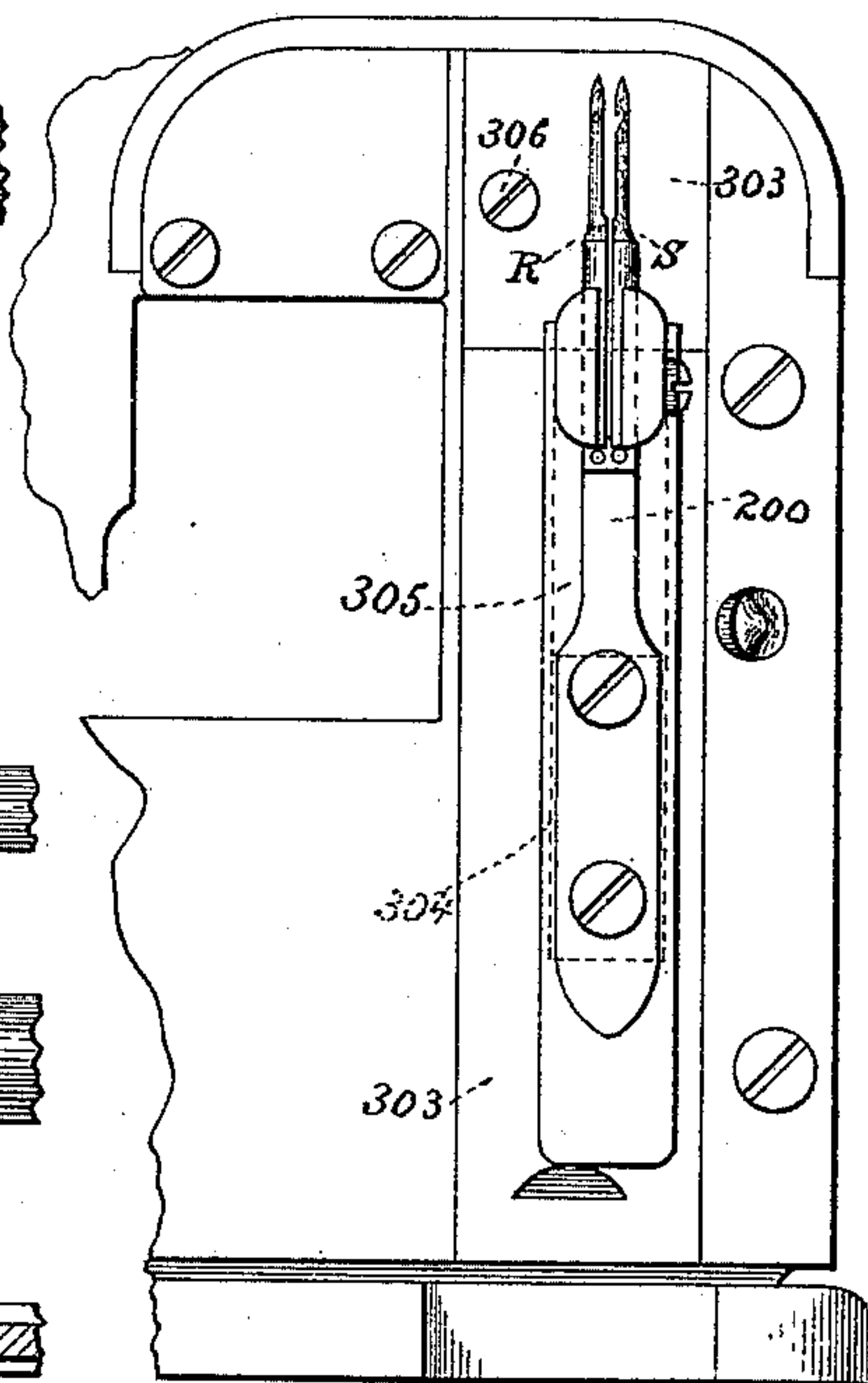
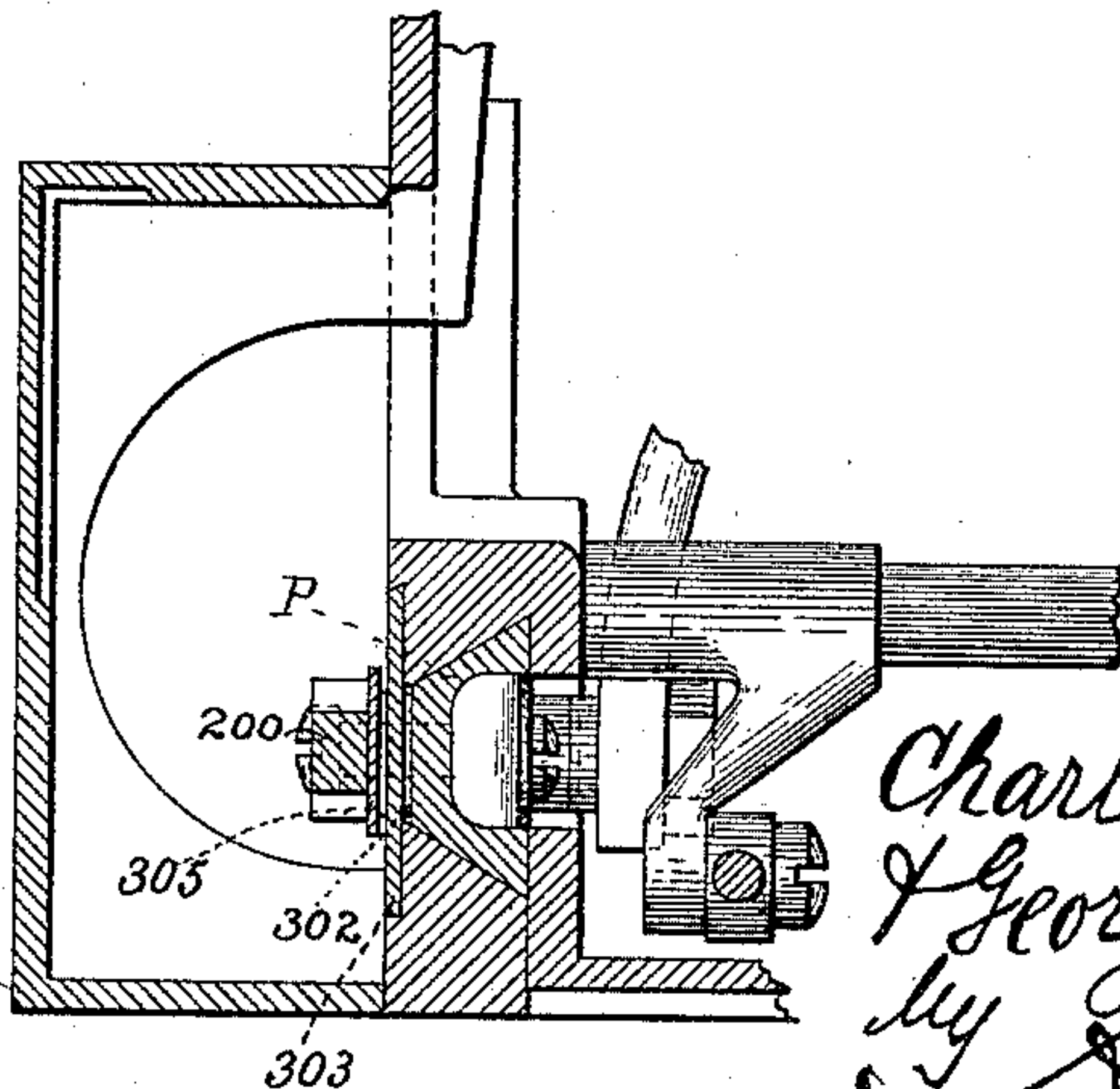


FIG - III -



Attest.

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UNITED STATES PATENT OFFICE.

CHARLES H. WILLCOX, OF NEW YORK, N. Y., AND GEORGE H. NOBLE, OF PROVIDENCE, RHODE ISLAND, ASSIGNORS TO THE WILLCOX & GIBBS SEWING MACHINE COMPANY, OF NEW YORK, N. Y.

DIRT-GUARD FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 392,088, dated October 30, 1888.

Application filed May 1, 1888. Serial No. 272,451. (No model.)

To all whom it may concern:

Be it known that we, CHARLES H. WILLCOX and GEORGE H. NOBLE, residents, respectively, of New York city, in the county and State of New York, and of Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Sewing-Machines, which improvement is fully set forth in the following specification.

This invention relates to sewing-machines which have a needle-carrier below the work-plate—such, for example, as illustrated in the machine of our application filed June 8, 1886, and officially numbered 204,546; and it consists in new or improved means for preventing particles of straw or other foreign matters from getting into the machinery. These means consist, generally, of guards placed between the needle-carrier and a laterally-projecting bracket, to which the needles or sewing implements are secured, one of these guards being stationary and being provided with a slot for the passage of the bracket, or a projection in the needle-carrier to which the bracket is secured, and the other guard being movable with the needle-carrier and bracket, and arranged in proximity to the stationary guard, so as at all times to cover the said slot.

In the accompanying drawings, which form part of this specification, Figure I is a partial view in longitudinal section and front elevation of a straw-sewing machine containing the invention. Fig. II is a partial end view, and Fig. III is a partial view in horizontal section.

The stitch-forming mechanism, including the means for reciprocating the needle-carrier P and the means for attaching the needles or sewing implements R S to the bracket 200, is or may be such as described in our aforesaid application, or it may be of other suitable description. The bracket 200 is secured by screws to a boss, 302, on the face of the needle-carrier P at a distance below the upper ends of said bracket and carrier equal to or in excess of the extreme stroke of the needle-carrier. Between the needle-carrier P and the

bracket 200 are placed the stationary guard 303 and the movable guard 305. The stationary guard 303 is provided with a slot, 304, in which the boss 302 works, and the movable guard 305, fixed to the bracket, is arranged outside of and in close proximity to the said stationary guard. This latter is made in two parts or plates, (see Figs. II and III,) set one above the other in the same grooves or ways of the frame, the upper solid plate fastened by a screw, 306, and the lower slotted plate held in place by friction and forming a slide, which can be moved in order to uncover the parts behind when desired. The covering-guard 305 is a thin plate slightly wider than the slot it is to cover and longer than the same by about or a little more than the stroke of the needle-carrier.

We claim as our invention—

1. The combination, with the needle-carrier and its needle-supporting bracket, of the slotted stationary guard and the movable guard which covers the slot, said guards being arranged between the carrier and the said bracket, substantially as described.

2. The combination, with the needle-carrier arranged below the work-plate, of the bracket secured to said carrier at about a needle-stroke's distance below the upper end thereof, the slotted stationary guard having a solid or unperforated portion above the slot therein, and the covering-guard arranged in proximity to the said stationary guard and attached to the said bracket, the said covering-guard projecting about a needle-stroke's distance above and below the point where the bracket is secured to the needle-carrier, substantially as described.

In testimony whereof we have signed this specification in the presence of two subscribing witnesses.

CHAS. H. WILLCOX.
GEORGE H. NOBLE.

Witnesses:

NATHAN W. LITTLEFIELD,
H. H. HAMMOND.