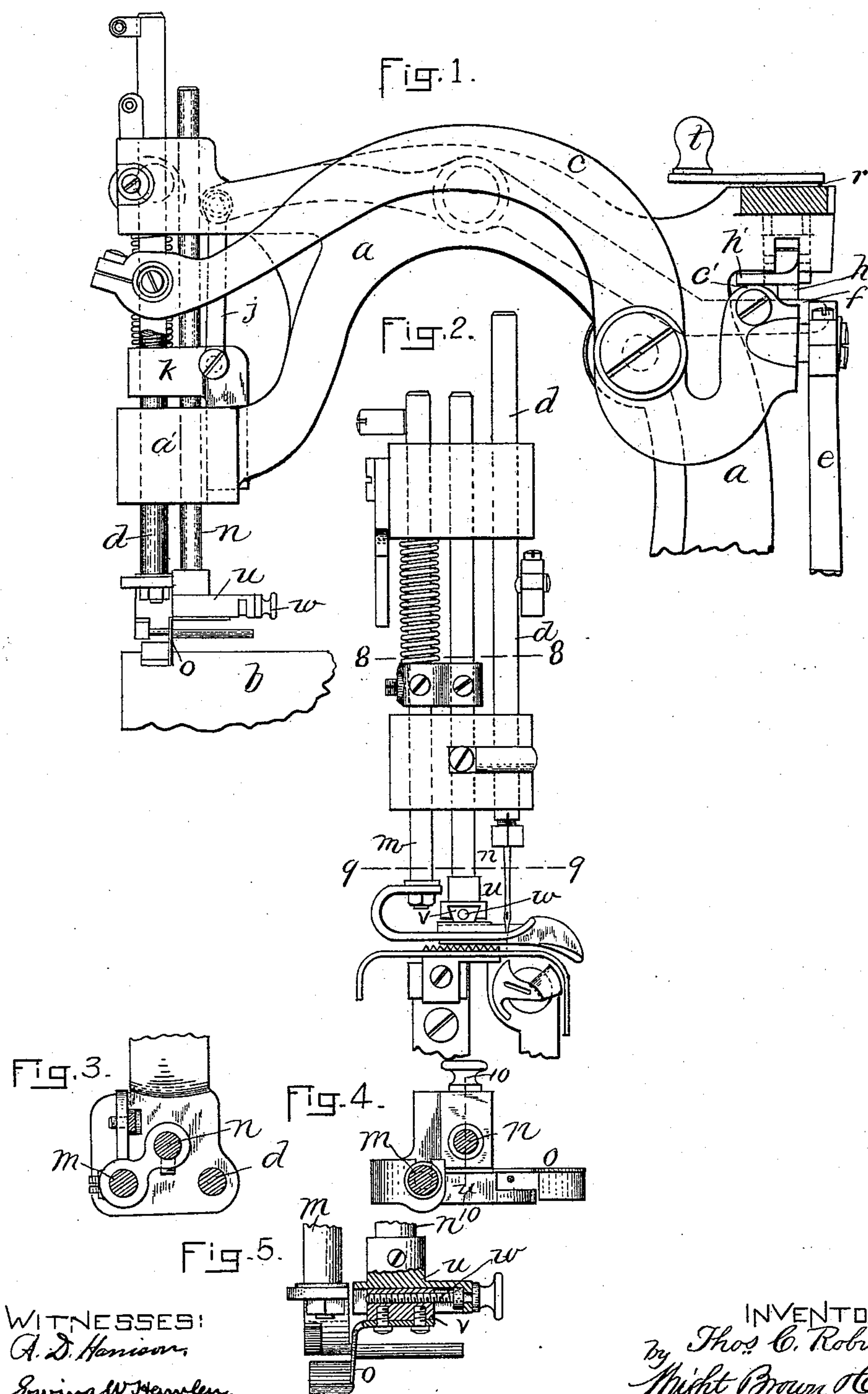


(No Model.)

T. C. ROBINSON.
GUIDE FOR SEWING MACHINES.

No. 486,811.

Patented Nov. 22, 1892.



WITNESSES:
A. D. Hanson,
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INVENTOR:
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UNITED STATES PATENT OFFICE.

THOMAS C. ROBINSON, OF BOSTON, MASSACHUSETTS, ASSIGNOR OF THREE-FOURTHS TO RICHARD STEPHENSON AND E. B. WELCH, OF SAME PLACE.

GUIDE FOR SEWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 486,811, dated November 22, 1892.

Application filed September 15, 1890. Serial No. 364,999. (No model.)

To all whom it may concern:

Be it known that I, THOMAS C. ROBINSON, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and
5 useful Improvements in Guides for Straw-Sewing Machines, of which the following is a specification.

My invention, relating to straw-sewing machines, particularly those of the Willcox & Gibbs type or kind, has for its object the provision of an improved guide adapted to co-
10 operate with the presser-foot and means for adjusting the said guide.

To this end my invention consists in the construction and combination of parts, as
15 hereinafter described and claimed.

Reference is to be had to the annexed drawings, and to the letters of reference marked thereon, forming a part of this specification,
20 in which—

Figure 1 is an elevation of the upper part of a straw-sewing machine of the Willcox & Gibbs type embodying my improvements. Fig. 2 is a front end view of Fig. 1. Fig. 3 is
25 a sectional detail taken on the line 8 8 of Fig. 2. Fig. 4 is a sectional detail taken on the line 9 9 of Fig. 2. Fig. 5 is a detail partly in section on the line 10 10 of Fig. 4.

In the drawings, *a* represents the frame of
30 the machine; *b*, the work-table; *c*, the vibrating needle-arm, and *d* the needle-bar of the sewing-machine, which is of the well-known Willcox & Gibbs type and needs no detailed description.

e represents the pitman, which connects the vibrating-arm *c* with the eccentric on the main shaft, which operates said needle-arm. This feature is also of well-known construction.
35

A slide *k* moves in a groove in the guiding-block *a'*, affixed to or integral with the bracket portion of the frame *a*. To the slide *k* are connected the presser-bar *m*, which is of the construction usual in machines of this class,
40 and a bar *n*, carrying a work-guide *o*, the upper portion of the slide *k* forming a shackle, which couples the bars *m* and *n* together, while the lower portion of said slide moves in the aforesaid guiding-block *a'*.
45

The bar *n*, before mentioned as being 50 shackled or coupled to the presser-bar, carries at its lower end the foot-piece *u*. The under side of this foot-piece is slotted or grooved from its front side almost to the other end, said groove or slot holding the slide *v*,
55 as is best shown in Fig. 5. The slide *v* is adjustable in the foot-piece *u* by means of a screw *w* passing through the end of the said foot-piece into the groove thereof and there engaging the upper part of the slide *v*. Said
60 slide *v* is dovetailed into the foot-piece *u*, as shown in Fig. 2, and is movable horizontally in the dovetailed groove or slot. To the slide *v* is affixed the work-guide *o*, as shown in Fig. 5.
65

It will be seen that by the means just described the work-guide *o* is independent of the presser-foot and is readily adjustable and may be set so as to cause the needle to enter the work at different distances from the
70 edge of the work.

I do not limit myself to the precise construction and arrangement of parts here shown and described, as various changes and modifications may be made in details of the same
75 without departing from the nature and spirit of my invention.

What I claim is—

1. The combination, with a sewing mechanism embracing a presser-foot and its bar, of
80 the vertically-movable guide-bar *n*, mounted in an independent guideway in the head of the machine above the work-table and provided with the foot *u*, independent of the presser-foot, and the guide *o*, adjustable in
85 the foot *u* in a straight horizontal plane toward and from the presser-foot, whereby the said guide-bar and foot *u* may move independently of the presser bar and foot, substantially as described.
90

2. The combination, with a sewing mechanism embracing a presser-foot and its bar, of the vertically-movable guide-bar *n*, mounted in an independent guideway in the head of the machine above the work-table and provided with the foot *u*, independent of the
95 presser-foot, means for connecting the bar *n* and the presser-foot bar together, and the

guide *o*, adjustable in the foot *u* in a straight horizontal plane toward and from the presser-foot, whereby the said foot *u* and the presser-foot may move independently or together,
5 substantially as described.

In testimony whereof I have signed my name to this specification, in the presence of

two subscribing witnesses, this 22d day of August, A. D. 1890.

THOMAS C. ROBINSON.

Witnesses:

ARTHUR W. CROSSLEY,
A. D. HARRISON.