

C. H. Buck.

Attachment for Sewing-Machine.
N^o 76047

Patented Mar. 31, 1868.

Fig. 1

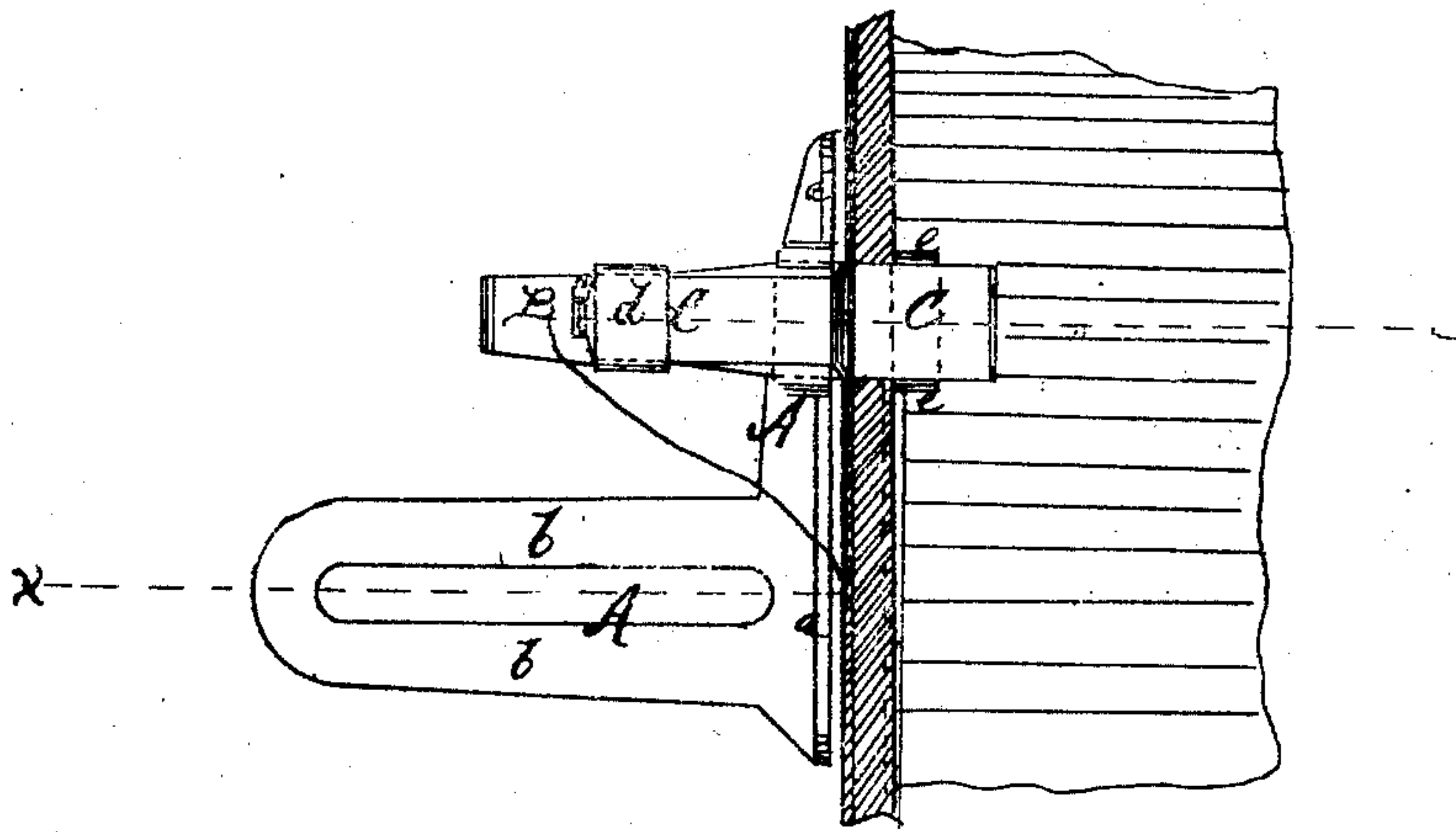


Fig. 2



Fig. 3

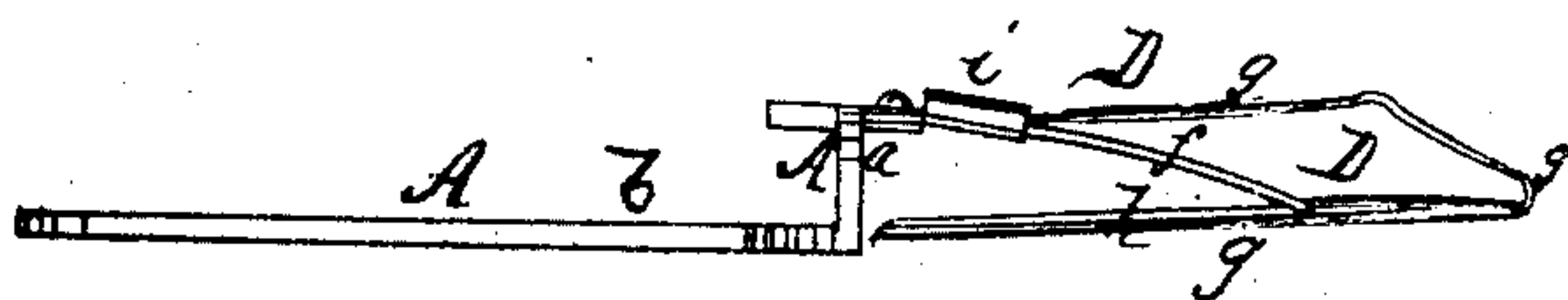
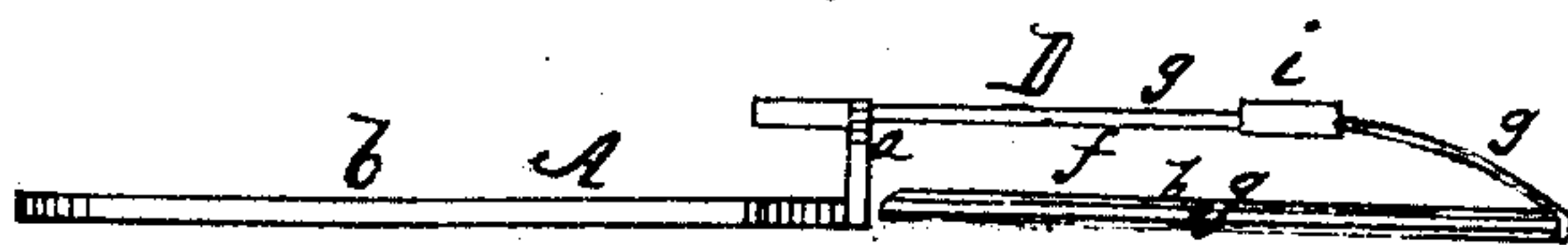


Fig. 4



Witnesses.

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CHARLES H. BUCK, 2D, OF WEST ARLINGTON, VERMONT.

Letters Patent No. 76,047, dated March 31, 1868.

IMPROVEMENT IN ATTACHMENT FOR SEWING-MACHINE.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, CHARLES H. BUCK, 2d, of West Arlington, in the county of Bennington, and State of Vermont, have invented a new and improved Sewing-Machine Gauge; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 represents a plan or top view of my invention.

Figure 2 is a vertical longitudinal section of the same, the plane of section being indicated by the line *x x*, fig. 1.

Figures 3 and 4 are side views of the same, showing it provided with my improved presser-attachment.

Similar letters of reference indicate corresponding parts.

This invention relates to a new adjustable gauge for sewing-machines, which is not only a guide for the fabric to be sewed, but which may also be provided with an adjustable binder, for guiding and holding bands of suitable widths around edges of cloth or fabric of suitable thickness.

The binder is removable in the gauge, and can, when taken out, be replaced by an adjustable presser or spring cloth-holder, which will hold the cloth on the plate, and will keep it smooth, being especially useful for tucking and similar purposes.

The binder consists of a metal arm, secured to the gauge, and carrying another arm, that is secured to it so that it may be removed at will. The end of the lower arm is bent up and towards the gauge, and that of the upper arm is bent down and towards the gauge. Between the two ends of the arms the cloth to be bound is fed, the upper plate being a spring-plate, so that it will adjust itself to cloth of unequal thickness. The edges of the binding-band are held between the ends of each arm and the body of the same, and rest against adjustable sliding plates, which are set nearer to or further from the gauge to fit bands of different width.

A represents a sewing-machine gauge, consisting of a guide-arm, *a*, and of a slotted bar, *b*, in the usual manner, and fastened by means of a suitable pin or screw upon the platform of the sewing-machine. In the surface of the bar *a* is a dove-tail or other recess for the reception of the shank of the binder or of the presser. The binder consists of two main parts, B and C. B is a sheet-metal or other plate, having a tapering shank, that fits and is fastened into the recess of the bar *a*. By placing the narrow end of the shank into the recess, and by then pushing the shank back, so that the wider part will come between the sides of the dove-tail recess, the plate B will be clamped, and that without the use of a screw or other fastening-device. In front of the gauge the plate B is bent down, and then close above the platform of the machine it is continued in a horizontal direction, as shown in fig. 2. Its end is then bent up and back, as shown. To the shank of the plate B is fastened the shank of the plate C, the end of the shank being, by means of a pin, *c*, fitted into a hole or recess in the plate B, and fastened by a sliding clasp, *d*, as shown. The plate C may also, in front of the bar *a*, be bent down, but not as much as the plate B. Its end is also bent down and back, as shown in fig. 2. In each plate, B and C, between the bent-back end and the body of the same, is held a sliding bar or plate, *e*, as shown.

The cloth to be bound is held between the ends of the plates B and C, as shown. The tape for binding the edges of the cloth rests against the bar *a* of the gauge, and its edges against the adjustable plates *e*. By moving the plates *e*, the device is adjusted to tape of greater or less width. The spring of the plate C allows it to adjust itself to cloth of greater or less thickness, but for marked differences it is advisable to replace the plate C by another similar plate, having a greater or less downward bend in front of the gauge.

The binder B C can be easily and quickly removed from the gauge when it is no longer required. In its place may be fastened to the gauge the presser D. The same consists of two plates, *f* and *g*, connected by means of rivets or otherwise, near one end. The connected end is fastened into the recess of the bar *a* of the gauge. The plate *f* is a strong metal plate, bent slightly downward, with its free end in contact with the lower presser-arm *h* of the plate *g*. The plate *g* is a weaker spring-plate, fastened upon the same, and bent around the end of the same, so that it has a lower presser-arm, *h*, as shown in fig. 3. The plates *f* and *g* are either slotted to receive a double-headed pin or rivet, or they are connected by means of a sliding clasp, *i*, as shown. As this pin or clasp is moved towards the free end of the plate *f*, it carries the plate *g* down, so that it lies flush upon the plate *f*, and thus the lower arm *h* will be pressed upon the cloth. The pressure is greatest,

the nearer the clasp is to the free end of the plate *f*, and the less, the nearer it is to the gauge. Fig. 3 represents the presser when not in use, and fig. 4 represents it as being pressed down.

I claim as new, and desire to secure by Letters Patent—

The binder, constructed as described, consisting of the plate B having a tapering shank, and fitting in the dove-tailed recess in the bar *a*, its forward end bent down and forming a loop bearing the adjustable guide *e*, and its rear end provided with the opening for the reception of the outer end of the plate C, which is held in place by the slide *d*, the forward part of said plate C being bent down and forming a loop having guide *e*, and placed directly above the loop in the plate B, as herein described for the purpose specified.

The above specification of my invention signed by me, this first day of August, 1867.

CHS. H. BUCK, 2D.

Witnesses:

J. N. B. THOMAS,

C. H. YOUNG.