

T. HALL.  
Sewing Machine.

No. 59,997.

Patented Nov. 27, 1866.

Fig. 2

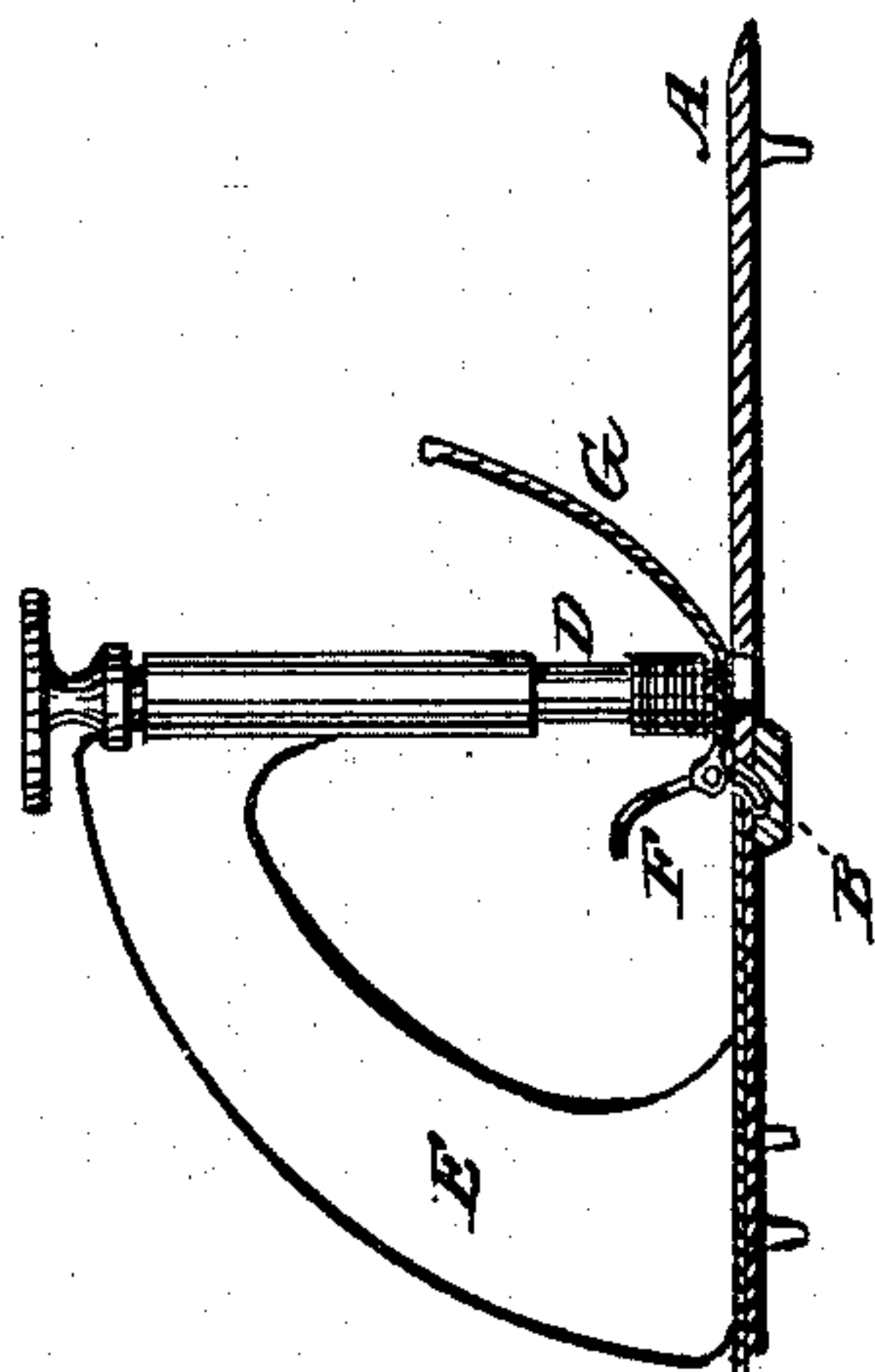
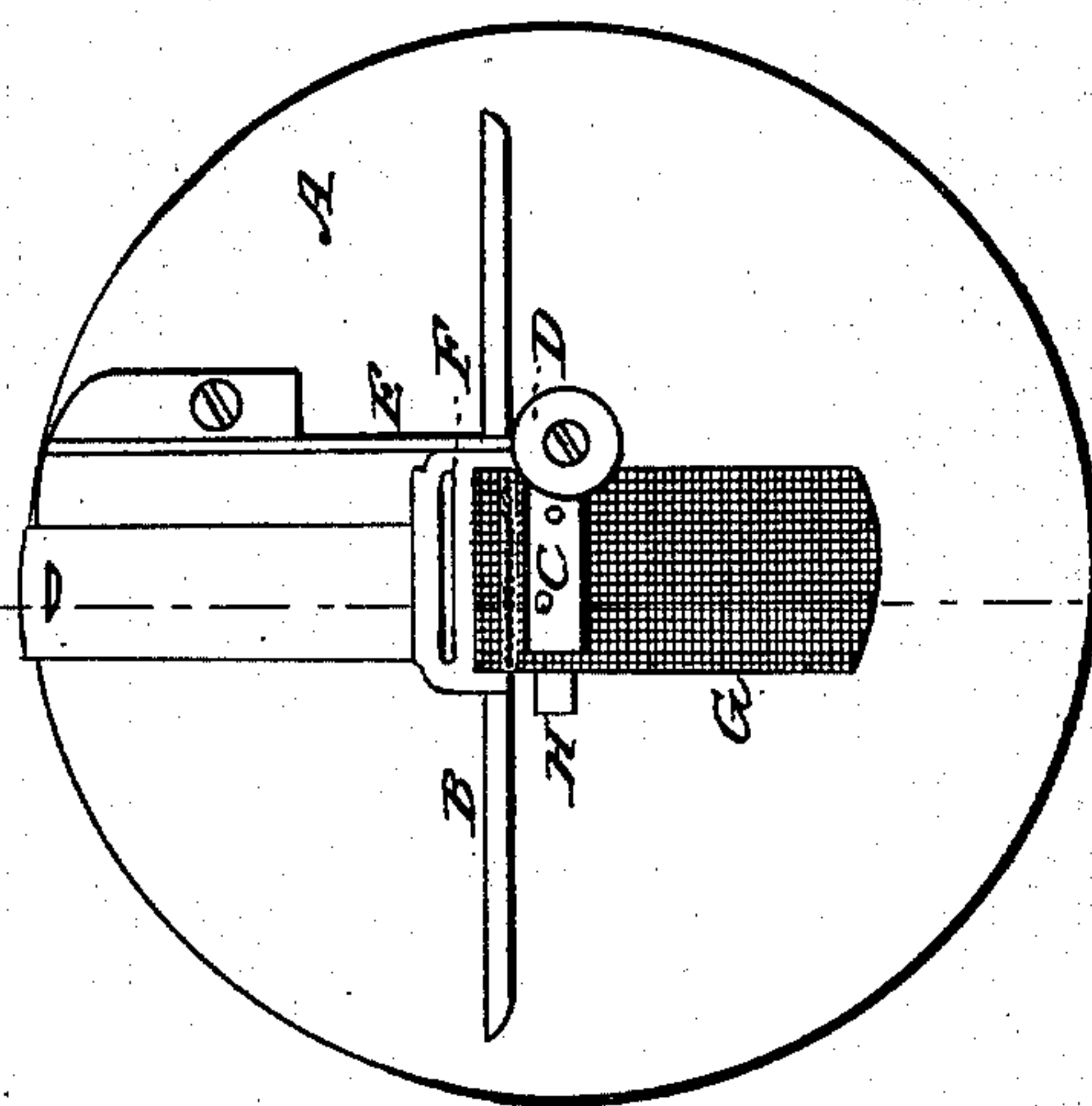


Fig. 1



Witnesses:

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# United States Patent Office.

## IMPROVEMENT IN SEWING-MACHINES.

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*Letters Patent No. 59,997, dated November 27, 1866; antedated November 22, 1866.*

### SPECIFICATION.

#### TO ALL WHOM IT MAY CONCERN:

Be it known that I, THOMAS HALL, of Bergen, in the county of Hudson, and State of New Jersey, have invented a new and useful Improvement in Sewing-Machines; 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, in which—

Figure 1 is a top view of the cloth-plate of a Florence sewing-machine made according to my invention.

Figure 2 is a vertical section.

Similar letters of reference indicate like parts.

The object of this invention is to enable one to sew buckles and other articles upon cloth or other fabrics by means of a sewing-machine. It consists in removing a portion of the cloth-table, or depressing a portion thereof, in a line parallel with the feed motion, or in other suitable ways, in order to admit of buckles and other articles of a bulky or a rigid character being attached to a garment or to any fabric by sewing on a sewing-machine in its usual operation.

The letter A designates the cloth-table of a Florence sewing-machine; C is the presser-foot attached to the lower end of the rod, D, which is held upright by the presser-arm, E, in the ordinary way. The needle, and various other necessary parts of a sewing-machine, are not here shown, because it is not necessary to do so in order to explain my invention.

The use of sewing-machines has been restricted chiefly to sewing, or attaching one fabric to another where both could be held under the operation of the feeding or presser-foot. Rigid and unyielding bodies or articles, and especially buckles, have not, so far as I am aware, been attached, by sewing on a sewing-machine as hitherto made, to a garment or fabric, and consequently such work has been done hitherto by hand. My invention enables me to overcome this difficulty so that I am able to sew a buckle, or other article made of unyielding material, to a band or other part of a garment, upon a sewing-machine under the usual method of operation. In this illustration I have shown how a buckle may be thus sewn to a band by means of a sewing-machine.

F is a division or part of a buckle, around one of the bars of which is passed one end of the band or strap, G. B is a depression made in the cloth-table near to and parallel with the slot or opening H, in which the feeding dog moves, such depression being made deep enough to allow one edge of the buckle to enter far enough to bring that bar around which the strap is bent down to or nearly down to the level of the table or to the plane in which the strap moves under the operation of the feeding devices. That part of the table which is below the depression is strengthened and thickened as is shown in fig. 2, so that the table shall not become weakened. The bottom of the depression may be left open, if desired, provided that it have bars across it to prevent the articles received in it from falling through, or becoming lodged therein, such bars becoming a substitute for a solid bottom, so that the article can move along over them as the fabric or garment to which it is being sewn is itself advanced by the feed. In this example the depression is closed at bottom, so that dust is not permitted to fall through upon the parts of the machine below.

The depression in the table may be of any suitable size and shape, or outline, and at any proper place, to suit the work to be done; the depression in this case being made straight, and parallel with the feed motion, and being in other respects suitable to receive the edge of a buckle, F, which is kept upright while it is fed along with the fabric G. This improvement can be applied to any style of sewing-machine.

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

Cutting away a portion of the cloth-table of a sewing-machine, or depressing a furrow therein, to admit of sewing buckles, or other articles, upon garments or fabrics, substantially as described.

THOS. HALL.

Witnesses:

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