W. BENNETT.

Sewing Machine.

No. 62,999. Patented March 19, 1867.

Fig. 1

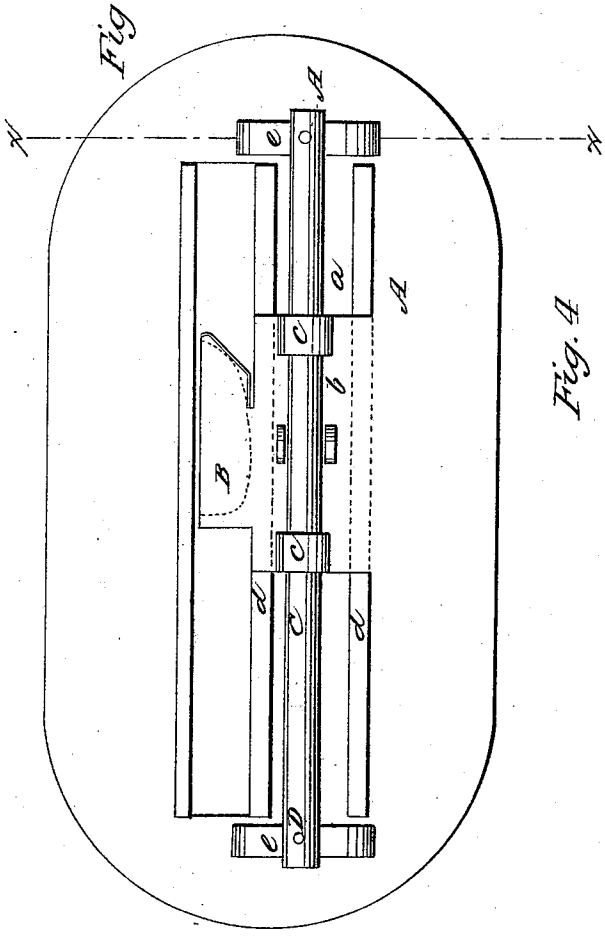


Fig. 3

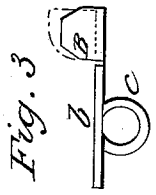


Fig. 4

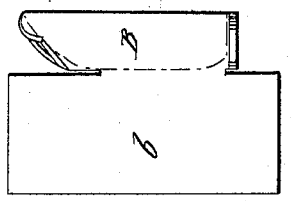
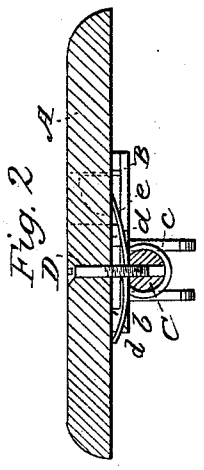


Fig. 2



Witnesses:

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WALTER BENNETT, OF HUNT'S HOLLOW, NEW YORK.

Letters Patent No. 62,999, *dated March* 19, 1867.

IMPROVEMENT IN SHUTTLE CARRIER FOR SEWING MACHINES.

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, WALTER BENNETT, of Hunt's Hollow, in the county of Livingston, and State of New York, 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, forming part of this specification, in which—

Figure 1 is an inverted plan or under view of the bed or cloth-plate of a sewing machine, having my improvement applied to it.

Figure 2, a transverse section of the same, taken in the line *x x*, fig. 1.

Figure 3, an end view of the shuttle carrier.

Figure 4, a plan or top view of the same.

Similar letters of reference indicate like parts.

This invention relates to a new and useful improvement in that class of sewing machines in which a reciprocating shuttle is used; and the invention consists in the means employed for guiding the shuttle carrier or retaining it in proper position while being operated. The plan now in general use consists in having the carrier fitted in grooves, which serve as guides, and it requires considerable skill and labor to adjust the carrier so that it will work smoothly and evenly or truly, with but little friction, and there is no means by which wear can be compensated for. By my improvement the shuttle carrier may be applied with but a trifling expense, and wear fully compensated for, by a very simple adjustment, so that the carrier may always be made to operate perfectly.

A represents the bed or cloth-plate of a sewing machine of the class specified, and having an oblong slot, *a*, through it as usual for the shuttle carrier B to work in, the carrier being at the lower part of the slot. This carrier is constructed of a piece of sheet metal, one part *b* of which has two eyes *c c* attached, the other part forming the carrier proper, B, the latter, as before stated, being at the lower part of the slot *a*, and the part *b* at one side of the same, and retained in contact with ledges *d d*, at the under side of the bed or cloth-plate A, by means of a cylindrical rod, C, which is secured to A by screws D D which pass through springs *e e* and into the rod C, as shown in fig. 2, a screw and spring being near each end of the rod. The ledges *d d* are parallel with each other, as shown in fig. 1, and form bearing surfaces for the upper surface of *b*, while the rod C serves as a guide for the carrier, the driving-rod being connected to the latter at any suitable point, the most preferable point probably being in line with and about midway between the two eyes *c c*. By this arrangement the carrier is operated with but little friction, and in case of wear the part *b* may be adjusted snugly up against the ledges *d d* by turning the screws D D, the springs *e e*, which bear against the under side of A, admitting of a very nice or delicate adjustment of the part *b* of the carrier to the ledges *d d*.

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

The guide-rod C, applied to the bed or cloth-plate A by means of the screws D D and springs *e e*, or their equivalents, substantially as and for the purpose specified.

I further claim constructing the shuttle carrier B, with a part or portion *b* to serve as a bearing surface against the cloth-plate A when used in combination with the adjustable guide-rod C, arranged and applied substantially as set forth.

The above specification of my invention signed by me this 9th day of November, 1866.

WALTER BENNETT.

Witnesses:

WM. F. MCNAMARA,

ALEX. F. ROBERTS.