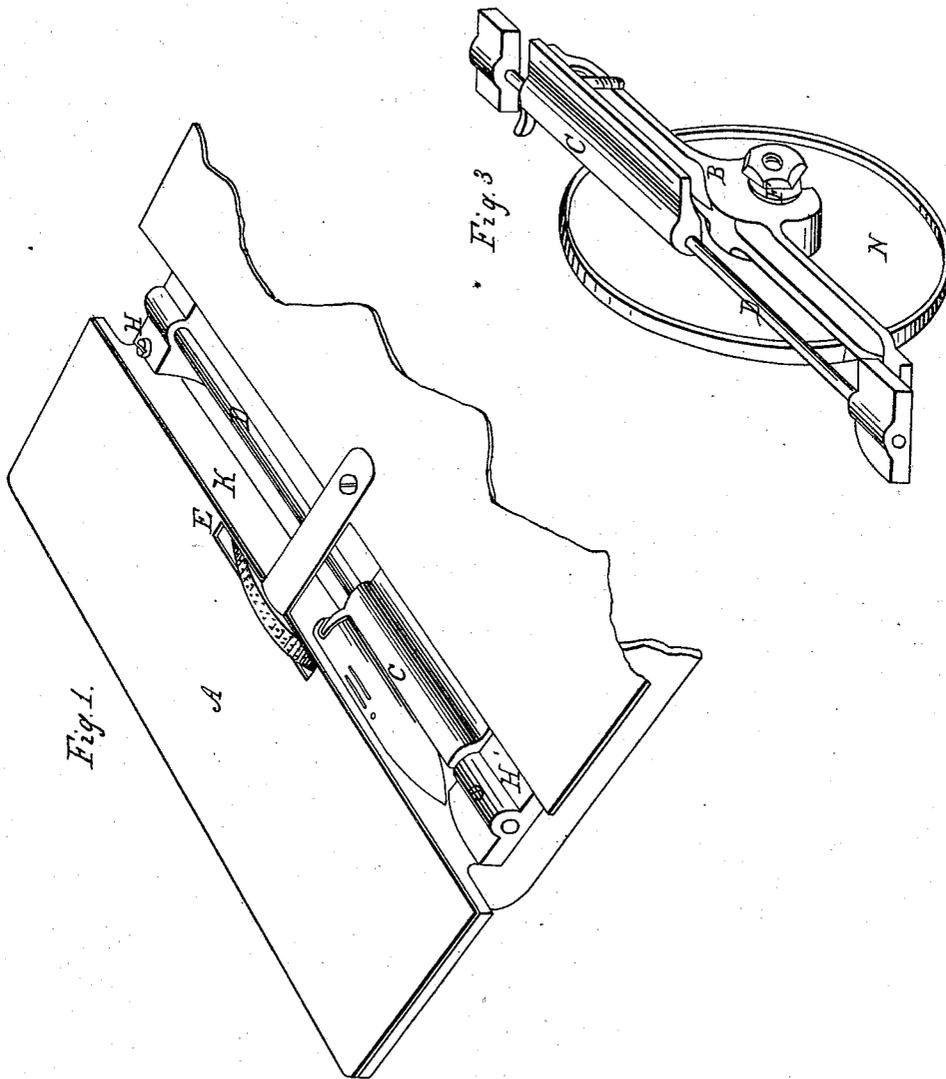


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Sewing Machine.

No. 78,817.

Patented June 9, 1868.



Witnesses

*George W. Buckley*  
*W. C. M. Kirby*

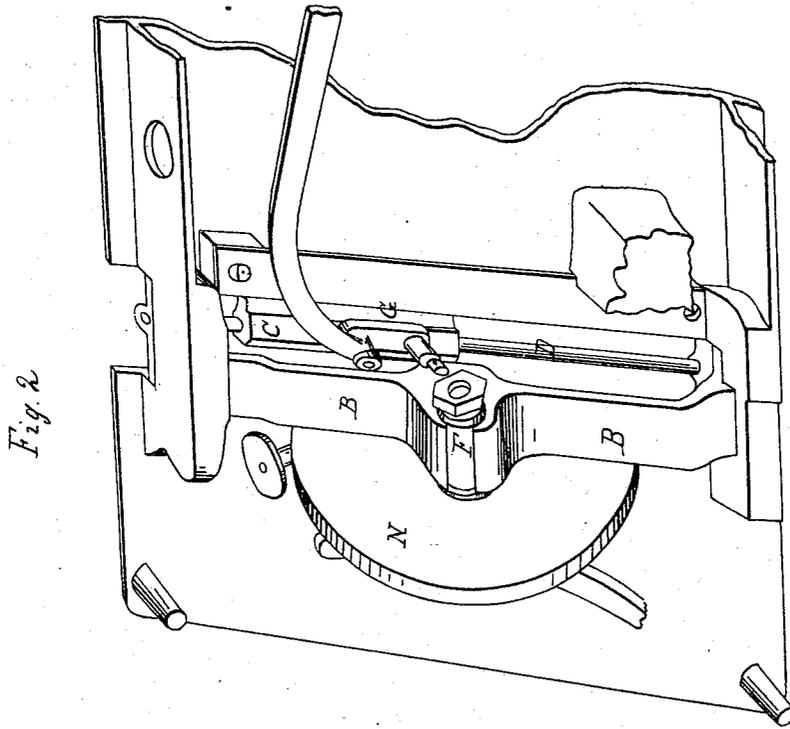
Inventor

*Chas. Parham*

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# United States Patent Office.

CHARLES PARHAM, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 78,817, dated June 9, 1868.

## IMPROVEMENT IN 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, CHARLES PARHAM, of city of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Sewing-Machines; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a broken top view of the table of a Howe sewing-machine, with my improvements attached.

Figure 2 is an under view of the same.

Figure 3 is a view of the feed-wheel, bracket feed-wheel, shuttle-carrier, and guide-bar.

My improvements relate to that well-known class of sewing-machines in which the stitch is made by the interlacing of two threads, by means of a needle and shuttle, or their equivalents.

The object of my invention is the adaptation of my improved mode of carrying and driving the shuttle (as secured by Letters Patent, dated November 21, 1854,) to the Howe sewing-machines, in which the usual shuttle-race or groove is used for the supporting of the shuttle, and the usual driver is used for the driving of the same, although I desire it to be understood that I do not confine my improvements to the Howe sewing-machine, but to all others in which they may be used.

That others may understand the construction and operation of my improvements, I will particularly describe them.

A is a portion of the table upon which the cloth rests: The usual shuttle-race, which supports the shuttle, and the usual guides or slots, for the support and guiding of the usual shuttle-driver, in the Howe machines, are cut away or removed.

B is the bracket or brace for the support or end to which the feed-wheel N and its stud are attached, and for support of the shuttle-carrier and driver, and its guide-bar.

C is the combined shuttle-carrier and driver.

D is the bar for the support and guidance of the combined shuttle-carrier and driver.

E is the usual open space for the feed-wheel to project above the line of the cloth-table.

F is the stud and its nut, for the support of and upon which the feed-wheel rotates.

G is the groove in which the flanges or wings of the driver are steadied upon a round bar while the driver is moving.

H H' are set-screws for the securing of the round shuttle-carrier guide-bar in position.

It will be observed that in attaching my improved shuttle-carrier and driver to the Howe sewing-machine, I have cut away entirely the usual race or groove, and the slots and guides for the driver, and in so doing the hanger or support of the feed-wheel is also removed, it being a part of the shuttle-race or groove, and attached to its under side; consequently an open space is produced. In this open space I place my bracket or brace, with a lower slotted end, for the attachment of the feed-wheel stud. Each end of the bracket rests upon and is secured to the bed at I, and through each end I pass my guiding and supporting-bar of the combined shuttle-carrier and driver, the same placed in a line parallel to the shuttle-face plate K and its upper edge.

And it will also be observed that I have so combined and constructed the several parts of my improvements that, as a unit or a whole, they may be removed and replaced without in the slightest degree varying or altering the mechanical operation of the Howe sewing-machine, as all the parts fit readily in their proper position. Therefore, the advantages of my arrangement of the several parts, and their combination, and by which a large portion of the surface of friction is removed, consequently less wear of the shuttle and greater freedom of action is attained, no receptacle or ledges for the collecting of grease and dust, which necessarily soil the needle-thread, and produce the friction and wearing of the several parts.

I deem it unnecessary to enlarge further upon the arrangement, construction, and operation of my improvement. I therefore will proceed to state what I claim, and desire to secure by Letters Patent, is—

The combination, with the bracket, of the carrier, driver-bar, groove and feed-wheel, as described, for the purposes set forth.

CHAS. PARHAM.

Witnesses:

GEO. E. BUCKLEY,

W. A. A. MCKINLEY.