

D. H. COLES.  
Sewing-Machines.

No. 152,829.

Patented July 7, 1874.

Fig:1.

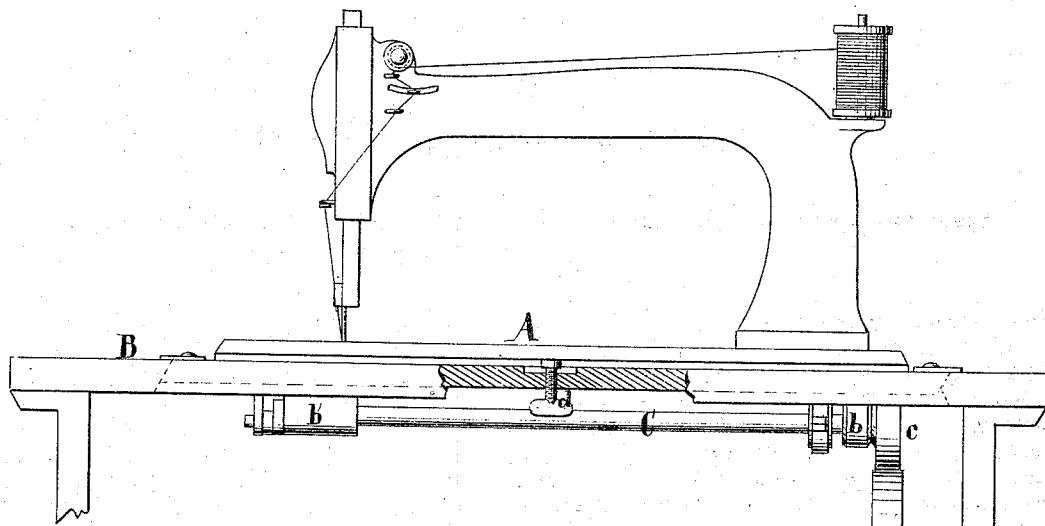
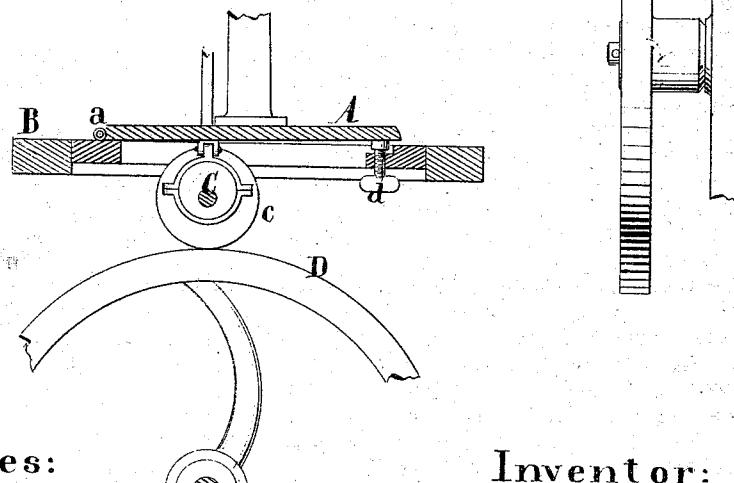


Fig:2



Witnesses:

John Bilkuber.  
Henry Gentnor.

Inventor:

David Hamilton Coles  
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# UNITED STATES PATENT OFFICE.

DAVID H. COLES, OF NEW YORK, N. Y.

## IMPROVEMENT IN SEWING-MACHINES.

Specification forming part of Letters Patent No. 152,829, dated July 7, 1874; application filed January 2, 1874.

*To all whom it may concern:*

Be it known that I, DAVID HAMILTON COLES, of the city, county, and State of New York, 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 thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a sectional side view of this invention. Fig. 2 is a transverse section of the same.

Similar letters indicate corresponding parts.

This invention consists in the combination of one or more set-screws with a hinged cloth-plate, and with a friction-disk which is mounted on the driving-shaft of the sewing mechanism, and which bears upon the periphery of a fly-wheel mounted on the driving-shaft, so that, by means of said set-screws, the friction between the friction-disk and the fly-wheel can be regulated.

In the drawing, the letter A designates the cloth-plate of my sewing-machine, which is connected to the table B by means of hinge-joints a, Fig. 2, so that the same can be turned up or down. From the under surface of said cloth-plate project lugs b, which form the bearings for the main shaft C, and on this main shaft is mounted a friction-disk, c, which,

when the cloth-plate is turned down to the position shown in the drawing, bears upon the periphery of a fly-wheel, D, that receives a revolving motion by a treadle or other means. In the table B are secured one or more set-screws, d, on the side opposite to the hinge-joints a, so that, by these set-screws, the cloth-plate can be slightly raised, and the frictional contact between the disk c and the fly-wheel D can be regulated with the greatest nicety.

This adjustment of the frictional contact between the fly-wheel and friction-disk is very desirable; for if the frictional contact is too hard the table B is liable to jump, and the motion of the sewing mechanism becomes unsteady; and, if the frictional contact is not hard enough, the sewing mechanism is liable to stop.

I disclaim everything shown and described in Patent No. 134,463.

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

A sewing-machine having the shaft C and friction-disk c, when hinged to the sewing-machine table, and combined with the adjustable screw d and fly-wheel D, to raise and lower the sewing-machine bed, as and for the purpose set forth.

DAVID H. COLES.

Witnesses:

W. HAUFF,  
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