

(No Model.)

3 Sheets—Sheet 1.

D. H. COLES.

SEWING MACHINE TABLE.

No. 299,353.

Patented May 27, 1884.

Fig. 1.

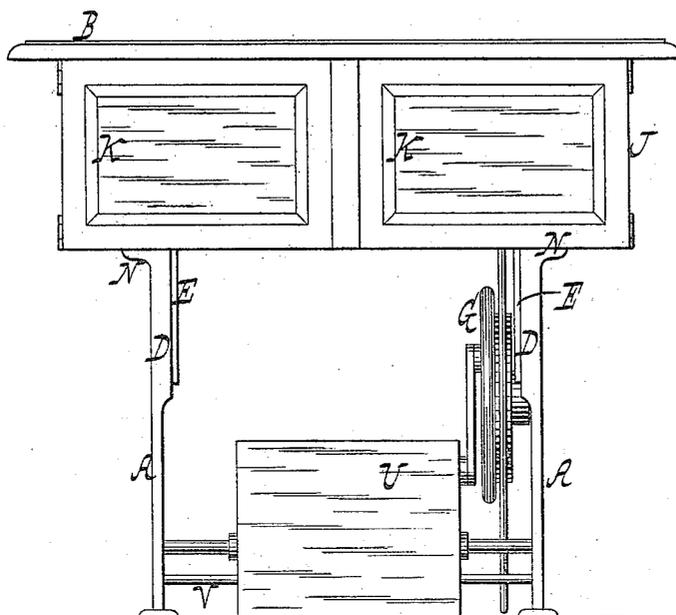
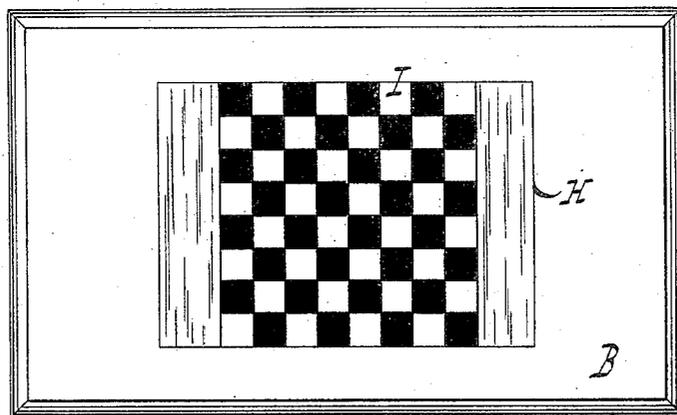


Fig. 2.



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Fig. 3. Patented May 27, 1884.

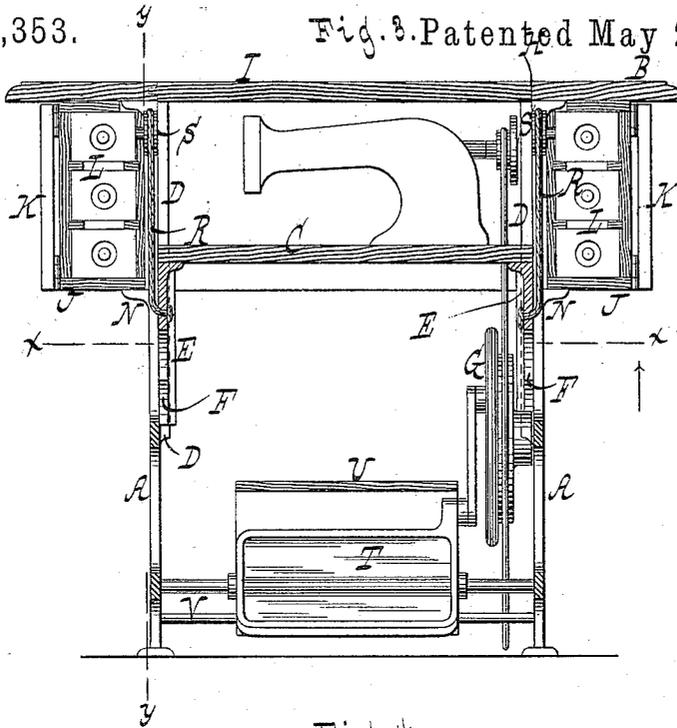
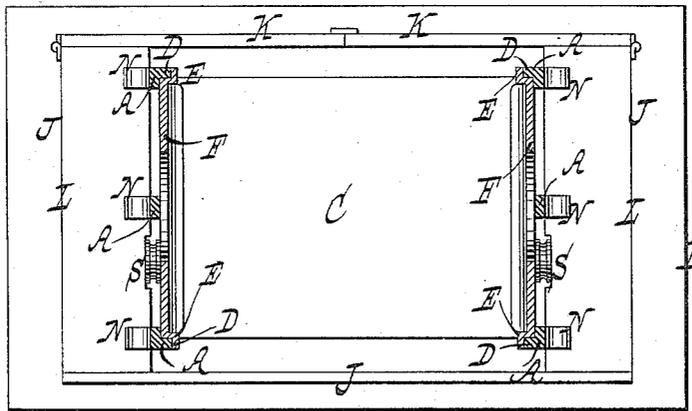


Fig. 4.



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Fig. 5.

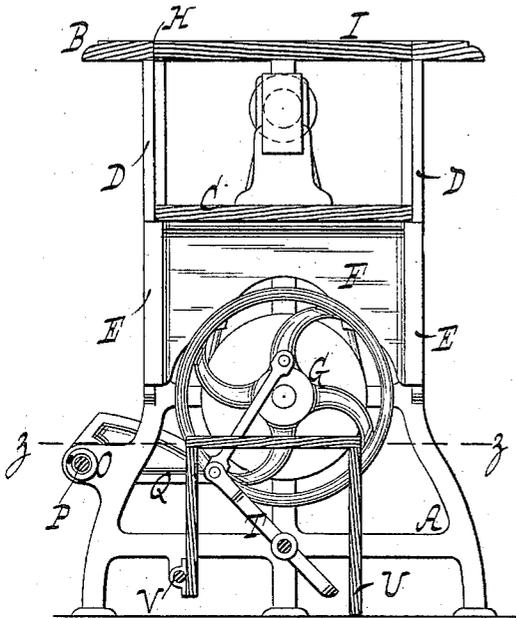


Fig. 6.

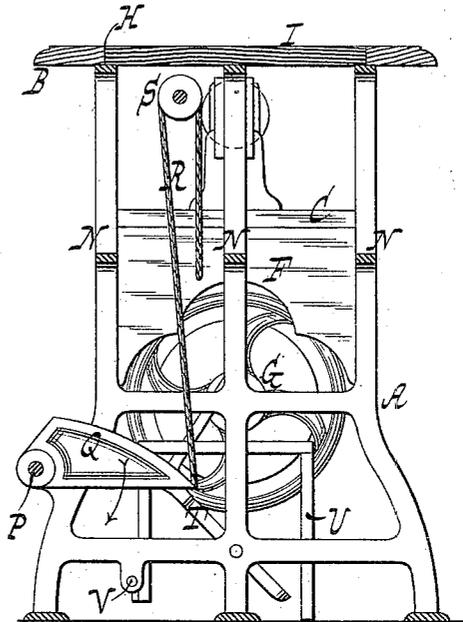
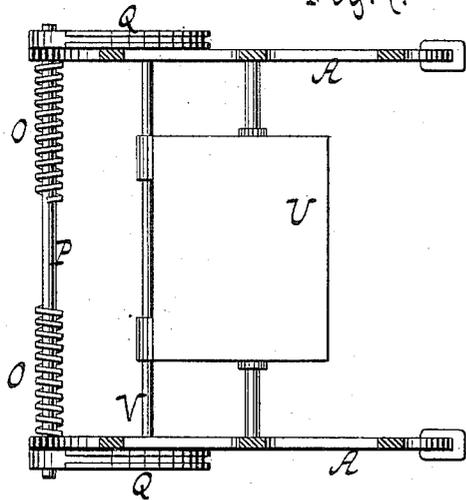


Fig. 7.



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# UNITED STATES PATENT OFFICE.

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

## SEWING-MACHINE TABLE.

SPECIFICATION forming part of Letters Patent No. 299,353, dated May 27, 1884.

Application filed July 27, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID H. COLES, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Sewing-Machines, of which the following is a specification.

This invention relates to that class of sewing-machines in which the machine proper rests on a drop-platform, whereby it may be brought entirely beneath the machine-table; and the primary object of my invention is to apply this platform to a stand-machine of substantially ordinary form, in distinction from a cabinet-machine. This object, among others, I have accomplished by the novel construction and arrangement of parts hereinafter described, and illustrated in the accompanying drawings, in which—

Figure 1 represents a side elevation of my machine as it appears when not in use. Fig. 2 is a plan or top view thereof. Fig. 3 is a longitudinal section. Fig. 4 is a horizontal section on the line  $xx$ , Fig. 3, looking upward. Fig. 5 is a central cross-section. Fig. 6 is a cross-section on the line  $yy$ , Fig. 3. Fig. 7 is a horizontal section on the line  $zz$ , Fig. 5.

Similar letters indicate corresponding parts.

The letter A designates two legs or standards, and B a table composing the sewing-machine stand.

C indicates the drop-platform, supporting the sewing-machine. This platform is guided in its up-and-down movement by vertical ways D on the legs A, the latter being preferably cast integral with such ways, and to engage the ways the platform is provided with pend-ent slides E of the proper shape at its opposite ends. Said ways D and slides E are arranged in pairs, and each pair of slides is connected together by a web, F, which is arched, as shown in Figs. 5 and 6, so that when the platform C is lowered the web adjacent to the leg which carries the fly-wheel G clears the hub of such wheel without regard to the length of the slides. It is evident that only one of the two webs F need be arched; but it is preferred to make the same similar in shape to each other.

In the table B is formed an opening, H, to receive the platform C when the latter is raised

for bringing the sewing-machine to a position for use—the platform being fitted to the opening—and when the platform is lowered this opening is closed by a cover, I, which is flush with the table, and is marked on one of its surfaces in imitation of a checker-board or other gaming device, to increase its utility. On the outer side of both legs A is a drawer-case, L, which rests on lugs or offsets N of the legs and is secured to the table B, each case being also secured to the proper offset, and by this arrangement of such cases they are made to act as braces to the legs, thus imparting thereto the required strength. To the front outer vertical edge of each drawer-case is hinged a door, K, and to the rear ends of the cases is secured a stationary board, so that when the hinged doors are closed, as in Fig. 4, said doors, drawer-cases, and board constitute what I term a “box,” J, for concealing the sewing-machine and its drop-platform when they are lowered. The platform C is held in the desired position by means of springs O, the tension of which is so regulated that they counterbalance, or nearly so, the platform and its concomitants. These springs O are coiled on a shaft, P, to the opposite ends of which are fixed cams Q, connecting by means of cords or chains R with the platform, the cords passing over guide-pulleys S, which are hung to a fixed part of the structure. The cam-shaft P has its bearings in the legs A, and the ends of the springs O are fixed to the shaft and to the legs, respectively, in such a manner that the springs act on the cams, and thence on the platform. The cams Q correspond to each other, and the cords R are connected to those parts thereof which are at the greatest distance from the cam-shaft, so that the leverage of the cams gradually decreases when the platform is raised, and vice versa, thereby equalizing the power of the springs. The fly-wheel G is connected to the usual treadle, T, and with this treadle is combined a cover, U, whereby it may be concealed, as well as protected, when not in use. This treadle-cover is hinged to a shaft, V, on one edge, and rests on the floor on the opposite edge; or it may rest on the treadle-shaft, so that the treadle-cover may be swung back to expose the treadle when desirable.

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

1. The combination, substantially as hereinbefore set forth, of the drop-platform supporting the sewing-machine, the pendent slides of the platform arranged in pairs at its opposite ends, the fly-wheel and its supporting-shaft, the arched web connecting each pair of slides, and the sewing-machine stand comprising the legs, having vertical ways for the platform-slides, substantially as described.

2. A sewing-machine stand consisting of the drop-platform C, carrying the sewing-machine, the legs A, having lateral lugs N, the table B, having an opening to receive the drop-platform, the drawer-cases L, arranged on the outer sides of the legs and resting on and secured to the lateral lugs, the stationary back board secured to the rear ends of the drawer-cases, and the doors K, hinged to the drawer-cases, substantially as and for the purpose described.

3. The combination, with a sewing-machine table, of the drop-platform, the cams, the ropes connecting the cams with the platform, the guide-pulleys for the ropes, the cam-shaft, and the coiled springs connected to the cam-shaft to counterbalance the platform, substantially as described.

4. The combination, with a sewing-machine stand and the treadle thereof, of a cover hinged at its rear to a part of the machine-stand, substantially as described, to swing forward over and backward from the treadle, substantially as and for the purpose described.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

DAVID H. COLES. [L. S.]

Witnesses:

CHAS. WAHLERS,  
E. F. KASTENHUBER.