

(No Model.)

W. K. HAYNES.

DESK.

No. 365,005.

Patented June 14, 1887.

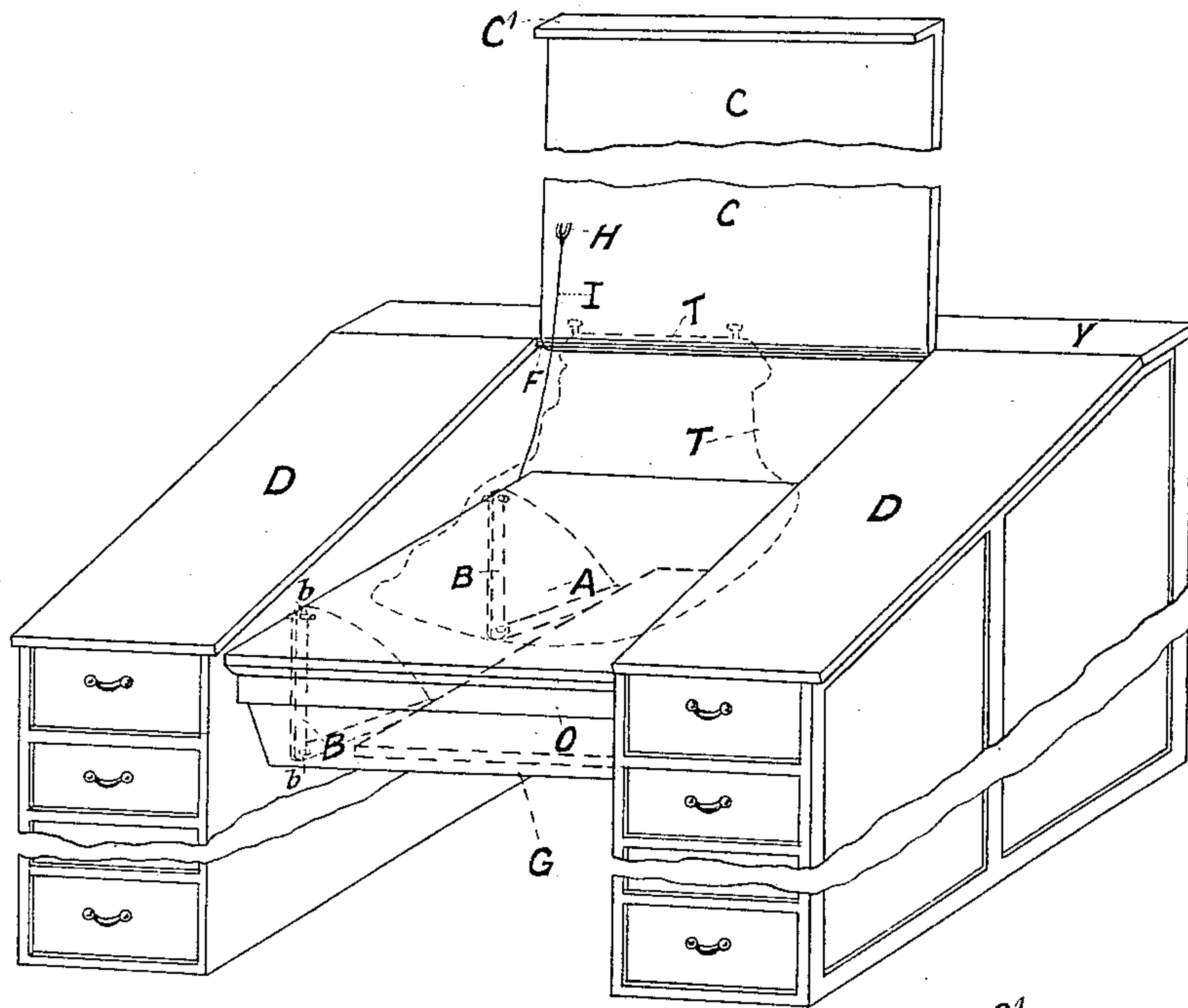


Fig. 1.

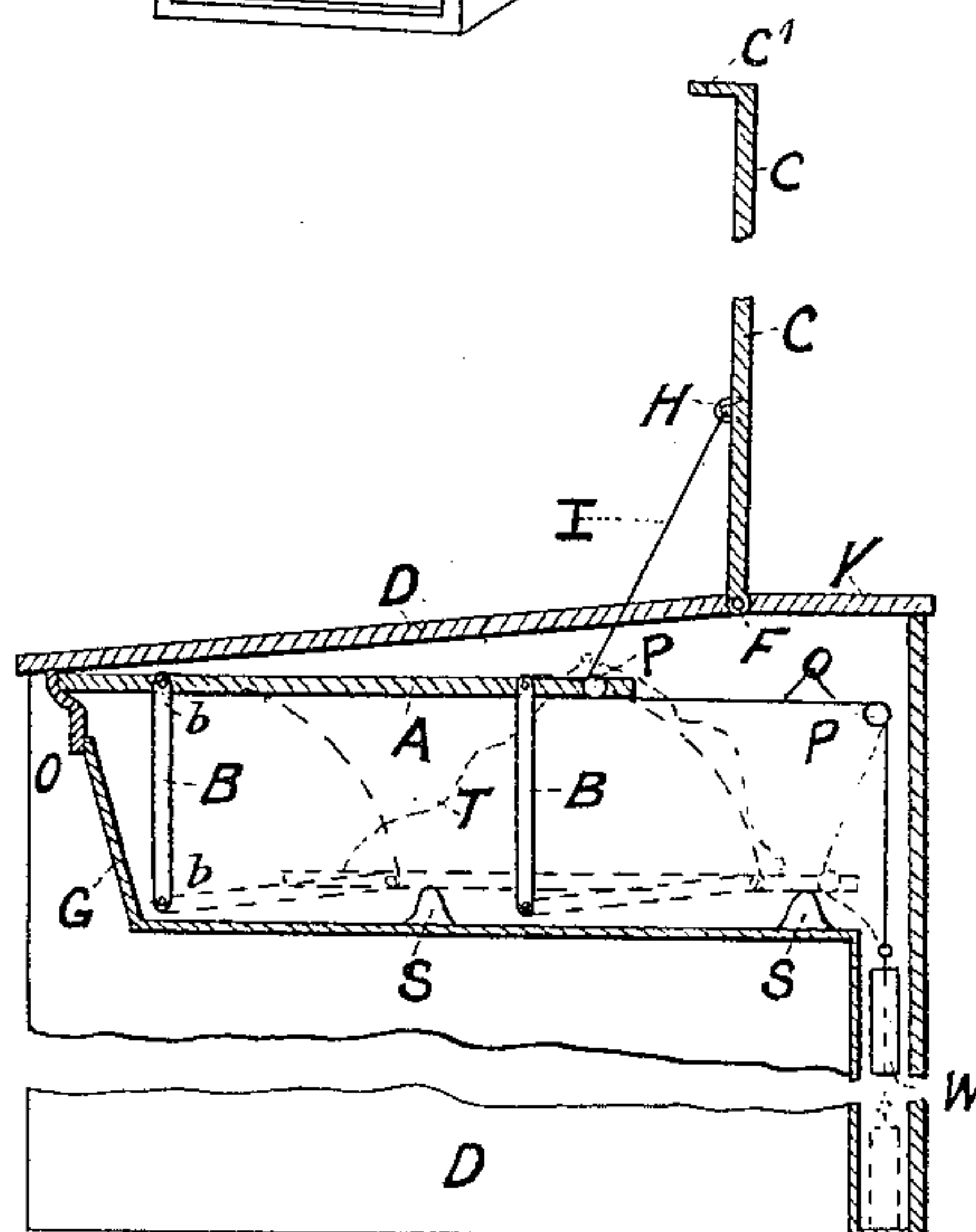


Fig. 2.

WITNESSES:

Peter C. Kyle  
George R. White

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# UNITED STATES PATENT OFFICE.

WILLIAM KNOX HAYNES, OF CHICAGO, ILLINOIS, ASSIGNOR TO ARTHUR  
B. REID, OF SAME PLACE.

## DESK.

SPECIFICATION forming part of Letters Patent No. 365,005, dated June 14, 1887.

Application filed January 22, 1887. Serial No. 225,063. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM KNOX HAYNES, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Folding Desks for Stenographers and Type-Writers, of which the following, in connection with the accompanying sheet of drawings, forming part of this specification, is a full, complete, and accurate specification.  
10 The utility of my invention is apparent from the fact that my invention serves both as a writing-desk and type-writer table.

My invention when closed is in appearance an ordinary writing-desk, and has the type-writer (by means of mechanism I shall hereinafter describe) stowed in the rear and beneath the surface, and so constructed that when it is desired to use the type-writer, simply raising the cover of the desk will bring it into proper  
20 position for use.

I am aware that there are other folding desks intended for similar purposes; but in all I have examined I find that the type-writer when lowered to close the desk is caused to take an oblique or tipped-up position, in which the delicate mechanism of the machine is in great danger of becoming disordered. In my improvement the type-writer is at all times kept in a horizontal position.

30 My invention is specially adapted to the Crandall type-writer, the size and construction of which enables me to lower it in a horizontal position beneath the surface of the desk, and yet leave sufficient room for the lower limbs of the operator under the desk.

For more complete description of the construction and operation of my invention reference may be had to the accompanying sheet of drawings.

40 In the said sheet of drawings like letters of reference indicate in both figures like parts.

Figure 1 of said drawings is a perspective view of my invention, broken above and below so as to omit parts not material to be shown for the purposes of this specification. Fig. 2 is a sectional side elevation of the material parts of my invention.

In the said drawings, A is a moving platform.

B is one of four arms by which the position of A is governed. 50

C is a hinged cover to the middle portion of the desk.

D is the side of the desk on either side of A.

F is a hinge upon which C swings. 55

G is an under casing to afford cover from below for type-writer.

H is a staple or other device by which lifting cord or strap is fastened to C.

I is a lifting strap or cord. 60

O is a facing-ledge across the front.

P is the point of fastening I and Q to A.

Q is a strap connecting a counterpoise to A.

P' is a roller over which Q traverses.

S is a small rubber bunter. 65

T is a dotted line showing the comparative amount of space occupied by the type-writer.

W is a weight or counterpoise.

Y is the flat surface usually at the back of a sloping desk. 70

b is a pivot.

The platform A is shown raised and the cover C open in both Figs. 1 and 2.

The position of the platform A when lowered is indicated by dotted lines in both Figs. 75 1 and 2.

The dotted line T in Fig. 1 indicates position of the type-writer when platform A is raised.

The dotted line T in Fig. 2 indicates the position occupied by the type-writer when platform A is lowered. 80

The arms B are preferably four in number, two on each side, and are fastened at their upper ends by pivots b to platform A, and at their lower ends to the respective sides of the desk D in the same manner. The position of the arms B when platform A is elevated is shown in Fig. 2, and their position when A is lowered there indicated by dotted lines. The sides of the desk D have solid tops. 90

To operate my invention, the type-writer is placed on platform A, occupying the position indicated in Fig. 1 by dotted line T, in which position my invention is used as a type-writer table. To change this to a writing-desk, by folding down cover C strap I is released and platform A, swinging on arms B, pushed downward and backward, stowing the type-writer



within the recess between the casing G and the cover C when folded down and in the position indicated by dotted line T in Fig. 2. The cover C when thus folded down completes  
5 an even surface across the entire top of the desk for writing purposes. To change again to a type-writer table, raise the cover C, which, by the strap I, will draw platform A into proper position, the counterpoise W nearly balancing  
10 the type-writer's weight, rendering this easily accomplished. The facing O has a ledge on its inner surface as an additional support for the front edge of platform A.

I do not broadly claim a folding desk or  
15 cabinet in which the movable table is lowered or raised by means of pivoted arms or levers, but restrict myself to the specific arrangement of the different component parts of my invention as in my specification shown and de-  
20 scribed, reserving only the right to vary the proportion or size of such parts, or any of them, in such degree as may be necessary to adapt them in construction to practical work-  
25 ing in the different sizes and styles of desks that may be built without substantial change either in the arrangements of said parts or the

mechanical principles involved, and also the right of substituting metal straps in place of cords for the suspension of weights or for the purpose of raising the movable bed or plat- 30 form A.

I am aware of the state of the art to which my invention relates, as shown in patent to Gerald of July 14, 1885, No. 322,279, and in this invention make no claim to the specific  
35 arrangement or mechanical principles as combined and adapted in said patent.

Having thus described the utility, operation, and construction of my improvement, I therefore claim as my invention— 40

The platform A, in combination with the arms B, pivots b, ledged facing O, sides of desk D, cover C, hinge F, strap I, strap Q, roller P', weight W, casing G, and bunters S.

In witness of the above I have hereunto af- 45 fixed my signature, in the presence of two subscribing witnesses, this 31st day of December, A. D. 1886.

WILLIAM KNOX HAYNES.

Witnesses:

GEORGE R. WHITE,  
PETER C. WYLIE.