(No Model.)

J. F. McELROY.

DESK AND SEAT SUPPORT.

No. 452,527. Patented May 19, 1891.

FIG. 3.

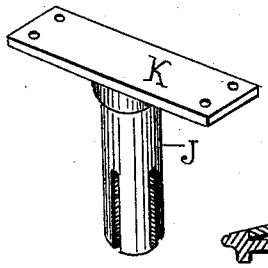


FIG. 1.

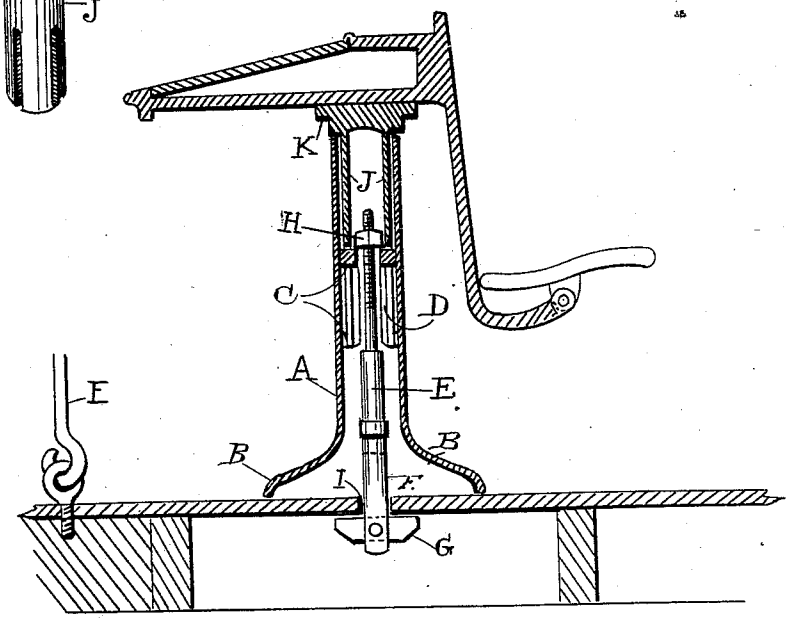
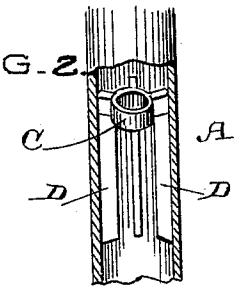


FIG. 2.



Witnesses,
H. C. Lee.

Inventor,
Joseph F. McElroy
by Dewey & Co.
attys

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JOSEPH F. McELROY, OF SAN FRANCISCO, CALIFORNIA, ASSIGNOR OF ONE-FOURTH TO JOHN T. DELANEY, OF SAME PLACE.

DESK AND SEAT SUPPORT.

SPECIFICATION forming part of Letters Patent No. 452,527, dated May 19, 1891.

Application filed October 18, 1890. Serial No. 368,610. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH F. MCELROY, a citizen of the United States, residing in the city and county of San Francisco, State of California, have invented an Improvement in Desk and Seat Supports; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to a novel support which is especially adapted to desks and seats; and it consists of the construction and combination of devices which I shall hereinafter fully describe and claim.

Referring to the accompanying drawings for a more complete explanation of my invention, Figure 1 is a vertical section taken through the standard, showing the means for securing it to the floor. Fig. 2 is a partial view of the interior of the standard. Fig. 3 is a view of the tubular slotted sleeve.

A is a standard, which is preferably cast hollow, of metal, having a flaring or expanded foot or bell-shaped bottom, as shown at B, adapted to rest upon the floor. Within this standard is cast or otherwise formed or secured a ring or collar C, having a central hole through it, and the guides D, which may also be cast with the standard, extend vertically along the inside of the standard, as shown.

E is a stout rod or shank of such diameter as to pass through the hole in the middle of the ring C, and the lower end of this shank is provided with a groove or channel F, within which is pivoted the short bar G. This bar turns easily about its pivot-pin, and when turned so as to stand in line with the shank E it is contained within the slot or channel F; but when turned by means of a wire or rod so as to stand transversely its ends extend out to a considerable distance upon each side. The upper end of the shank E is screw-threaded and has a nut H fitted to screw upon it.

The operation of the device will then be as follows: The line of the desks or seats which are to be secured and the distance between them having been determined, holes are bored through the floor, as shown at I, these holes being of sufficient diameter to allow the lower end of the shank E to pass through them when the bar G is turned so as to stand in line with the shank. The standard A is set over the hole I, and the shank E passes down through the diaphragm C in the center of the standard, and the bar G, being turned so as to stand in line with the shank, is passed through the hole in the floor, after which it is turned by a wire or rod so as to stand transversely, as shown in Fig. 1. The nut H is then screwed down upon the upper end of the shank E until it presses firmly upon the ring C, and by this action it will draw the rod upward, so as to bring the cross-bar G into firm contact with the under surface of the floor, and by this means the standard A is strongly secured without the use of screws or other fastenings, which are liable to work loose.

J is a tubular sleeve adapted to telescope into the upper end of the standard A and having slots made in the sides, so that it may slip over the guides D within the standard. These slots thus fitting over the guides prevent the desk, which is secured to the upper end of this sleeve, from turning around. The upper end of the sleeve J has a plate or table K, which serves for the support of the desk, the desk being bolted or otherwise secured to this plate, and, as before stated, the slots prevent the device from turning around, and the desk is thus held steadily at all times.

When it is desired to remove the desk for any purpose, the telescopic sleeve J, to which the desk and seat are attached, is lifted out from the standard A, and a nut H being unscrewed, so as to release the shank E, the latter may be lowered a little in the hole I in the floor, and by means of a wire or suitable instrument the cross-bar G is turned so as to stand vertically within the slot F, when the shank can be drawn out and the floor will be left perfectly clear and smooth, with the exception of the holes. I have shown the ends of the bar G beveled or tapered, so that they will more easily pass through the holes in the floor when desired. By this construction I am enabled to secure desks firmly to the floor without danger of their becoming loosened, as when fastened by screws. They are easily removable at any time for the purpose of leaving a clear space, and when the room is needed as a lecture-room, where it is desirable to put in chairs, it is only necessary to lift the desks and the connecting-sleeves J out of the standards A without removing the latter,

the height being such that a chair can be set over the standard without removing it.

It is easy to keep the floor clean, as there is only the single standard to support the desk, and when entirely removed the floor can be easily washed or anything done that is necessary.

In cases where a double or deadened floor is used, where the cross-bar G cannot be readily turned into position, it will be manifest that a strong screw-eye may be fixed in the floor and the lower end of the shank E connected with it by means of a hook formed in the lower end of the shank or by any other suitable device.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

A support for school-desks, consisting of the standard having the expanded foot adapted to rest upon the floor, a ring or diaphragm extending across the interior of the standard having a central hole, a shank screw-threaded and provided with a nut at the upper end, said shank passing through the hole in the diaphragm, and a means for securing the lower end of the shank to the floor, whereby the standard is fixed thereto, guides D, extending vertically within the standard, and a telescopic sleeve J, fitting the upper end of the standard, having a plate at the upper end for the attachment of the desk and slots made in the lower end, so as to fit over the guides in the standard to prevent the desk from turning about, substantially as herein described.

In witness whereof I have hereunto set my hand.

JOSEPH F. McELROY.

Witnesses:
S. H. NOURSE,
H. C. LEE.