

UNITED STATES PATENT OFFICE

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CUSPIDOR.

953,791.

Specification of Letters Patent.

Patented Apr. 5, 1910.

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To all whom it may concern:

Be it known that I, JACOB MEYERHOFF, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Cuspidors, of which the following is a specification.

My invention relates to improvements in cuspidors and more particularly to a mechanism for emptying the same of its contents, the object of the invention being to provide a mechanism for the purpose mentioned which may be conveniently operated by the foot of a person.

A further object of my invention is to provide a device of the character described which shall be especially adapted for use in railway cars, the cuspidor emptying mechanism to be operated whenever it becomes necessary by a train porter or other operator.

Other objects will appear hereinafter.

With these objects in view my invention consists in the novel construction and arrangement of parts which will be hereinafter fully described and more particularly pointed out in the appended claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a plan view of a floor to which my improved cuspidor and the mechanism connected therewith is secured, and Fig. 2 is a vertical section thereof showing the operation of said mechanism.

Referring now to the drawings, 1 designates the floor in a railway car and 2 my improved cuspidor inserted therein. The cuspidor 2 comprises a circular disk portion 3 which is fitted in the floor 1 so as to be flush therewith, said disk having a depressed portion formed integral with a vertically disposed tube 4 coaxial therewith. The lower end of the tube 4 is preferably ground off true and smooth forming a seat for the closing plate 5 which is integral with the lever 6, the latter being mounted to swing in a vertical plane as indicated by dotted lines. A bracket 7 is secured to the under side of the floor 1 by means of the bolts 8, and at the point 9 in the lower end of said bracket the lever 6 is fulcrumed. The plate 5 normally closes the opening at the lower end of the tube 4 by the action of the tension helical spring 10 pivoted thereto at the point 11 and to the pin 12 which projects from said

tube, the plate 5 and the lever 6 being depressed and the contents of the cuspidor allowed to escape by gravity when the pedal 13 of the vertically movable rod 14 is moved by the operator. The rod 14 is pivoted at the point 15 to the lever 6 and is adapted to slide freely in the bushing 16 which is inserted in the floor 1 in such a manner that the top surface thereof is flush therewith.

It will be noted that the pivot at the point 15 is adjacent to the fulcrum of the lever 6, the object of this arrangement being to produce a greater radius of movement of the plate 5 than the pedal 13 when the latter is depressed so that the pedal shall normally project as little as possible above the surface of the floor.

In the summer time the lever 6 may be detached as no closing means for the tube 4 is necessary during this season, but in the winter said tube should be kept closed in order to prevent drafts, the under side of the car floor 1 being of course exposed to the cold atmosphere.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not restrict myself to the precise details of construction set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the appended claims.

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

1. In a cuspidor, a disk and a floor in which the same is inserted, the peripheral portion of said disk being flush with the floor surface, a depressed portion in said disk, a vertically disposed tubular portion formed integral with said depressed portion and coaxial therewith, a plate and a lever integral therewith mounted to close the opening at the lower end of said tube, said lever comprising a tension helical spring pivoted to said plate and connected with said tube for holding said plate in the normally raised position, a bracket secured to the under side of said floor to the lower end of which said lever is fulcrumed, and means for depressing said lever, substantially as described.

2. In a cuspidor, a disk and a floor in which the same is inserted, the peripheral portion of said disk being flush with the floor surface, a depressed portion in said disk, a vertically disposed tubular portion formed

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axial therewith, a plate and a lever integral
therewith mounted to close the opening at
the lower end of said tube, said lever com-
5 prising a tension helical spring pivoted to
said plate and connected with said tube for
holding said plate in the normally raised po-
sition, a bracket secured to the under side of
said floor to the lower end of which said
10 lever is fulcrumed, and means for depressing
said lever comprising a vertically disposed
pedal rod pivoted thereto and extending up-

wardly through said floor, and a bushing
inserted in said floor and in which said rod
is adapted to slide, substantially as de- 15
scribed.

In testimony whereof I have signed my
name to this specification in the presence of
two subscribing witnesses.

JACOB MEYERHOFF.

Witnesses:

HELEN F. LILLIS,
JOSHUA R. H. POTTS.