No. 733,431. PATENTED JULY 14, 1903.

G. W. SHADE & P. S. KNAPP.

CUSPIDOR.

APPLICATION FILED OCT. 23, 1902.

NO MODEL.

Fig. I

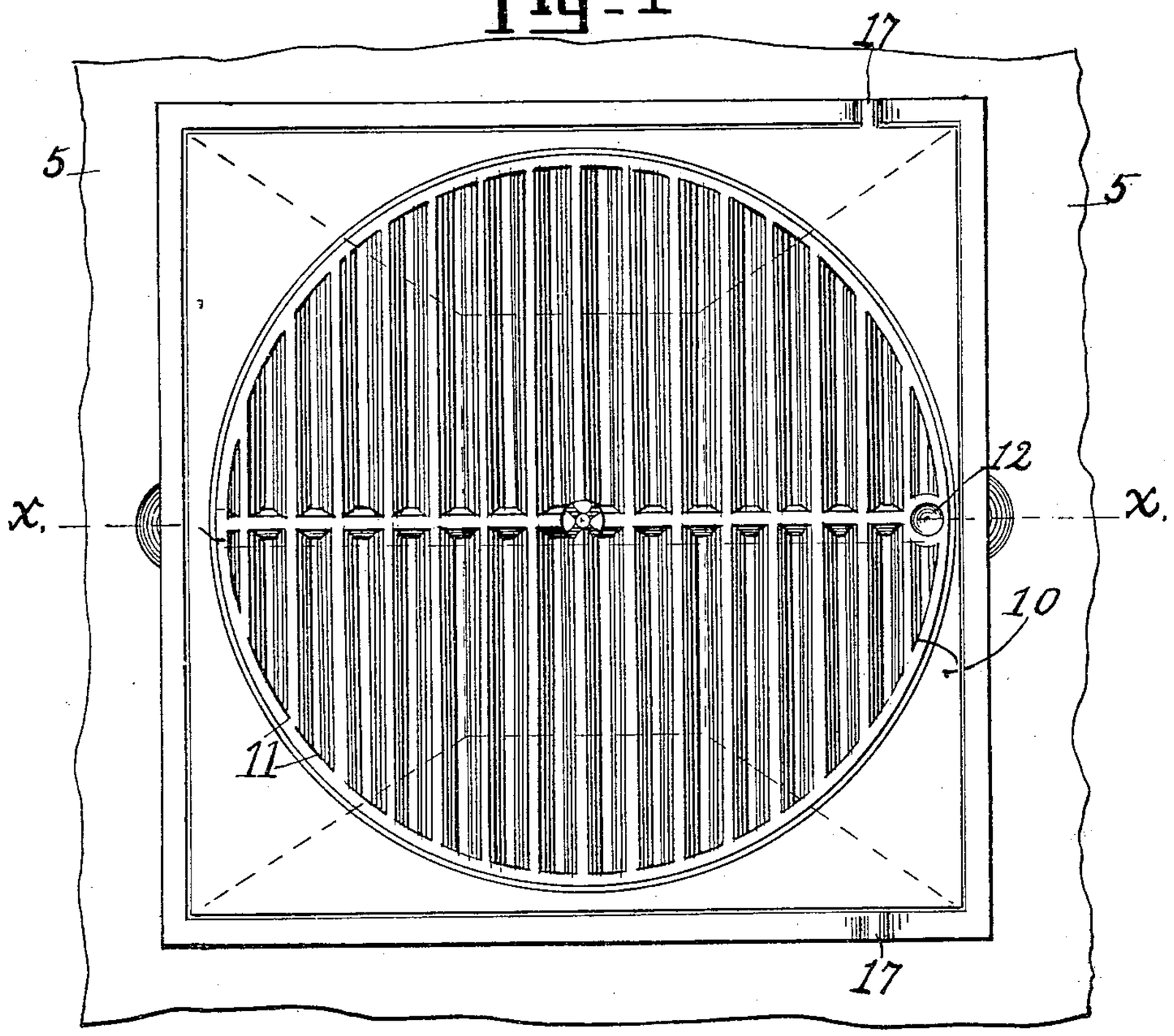
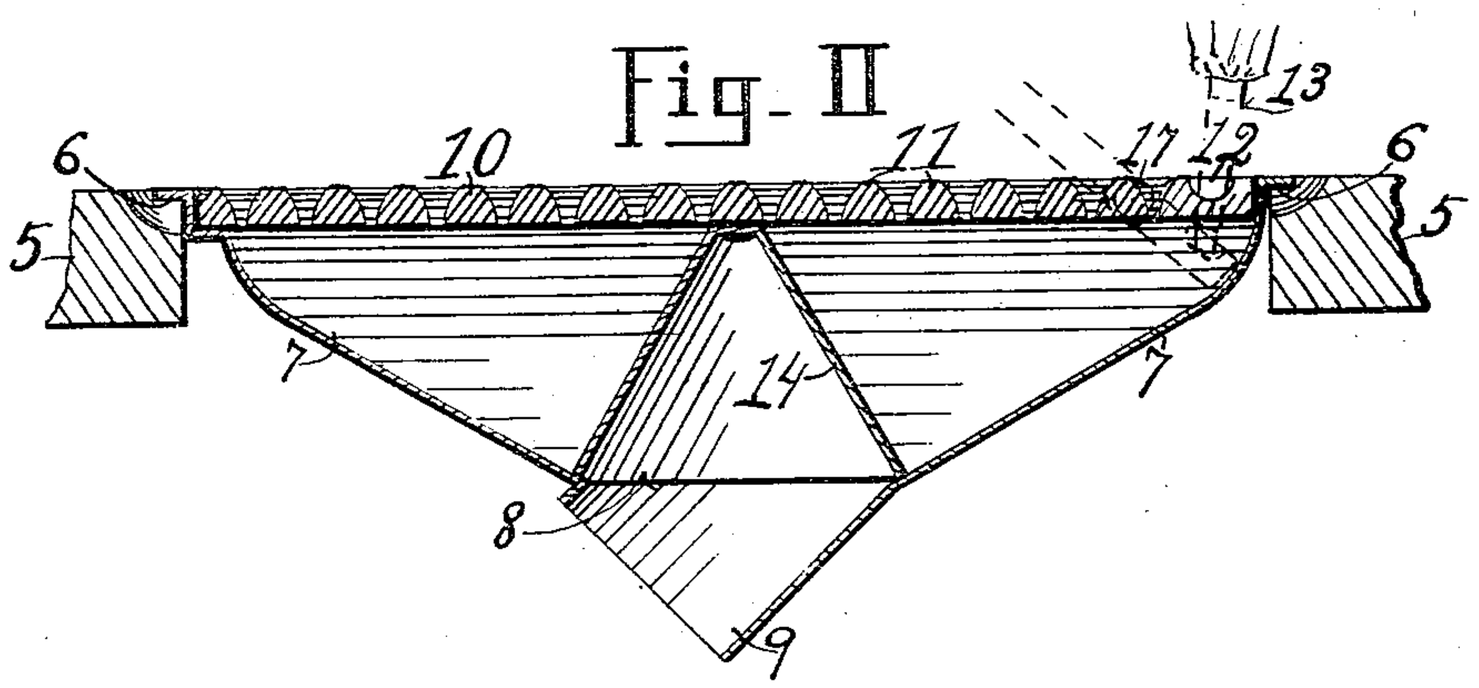


Fig. II



Witnesses
A. E. Waller.
N. Waller.

Inventors.
George W. Shade.
Paul S. Knapp.
by W. C. Stevens. Attorney

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UNITED STATES PATENT OFFICE.

GEORGE W. SHADE AND PAUL S. KNAPP, OF PITTSBURG, PENNSYLVANIA.

CUSPIDOR.

SPECIFICATION forming part of Letters Patent No. 733,431, dated July 14, 1903.

Application filed October 23, 1902. Serial No. 128,490. (No model.)

To all whom it may concern:

Be it known that we, GEORGE W. SHADE and PAUL S. KNAPP, citizens of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Cuspidors; and we do hereby declare the following to be a full, clear, and exact description of the same.

This invention relates in general to cuspidors, and more particularly to cuspidors for use in cars. Its object is, first, to provide a cupidor which may not only serve as a spittoon, but may also serve as a receptacle for nutshells, orange and banana peel, apple-cores, and such light trash as is found littering a car-floor at the end of a trip; second, to adapt a cuspidor to be let into a car-floor level with its surface, to permit saliva to pass through its cover, to adapt the cover to be opened to admit the various kinds of litter without requiring the passenger to soil his fingers in raising the cover, to permit trash to pass freely through the bottom of the cuspidor and out of the car when the cover is raised, to close the outlet against the entrance of cold air when the cover is down in its normal resting-place, and to prevent the wind from blowing light trash up into the car when the cover is raised while the car is in rapid motion whether the car be run one or the other end first.

To this end our invention consists in the construction and combination of parts forming a cuspidor hereinafter more fully described, and particularly pointed out in the claim, reference being had to the accompanying drawings, in which—

Figure I is a plan or top view of a cuspidor according to our invention. Fig. II is a longitudinal vertical section at the line *x* of Fig. I, partially showing the lid raised by means of an umbrella in dotted lines.

Numeral 5 represents the floor of a car cut through and shaped with a ledge at 6 to receive the pan 7 of our cuspidor. This pan has an aperture 8 through its bottom large enough to permit such trash as orange and banana peel, nutshells, &c., to drop freely through, and the four sides of the pan are slanted like a hopper toward this aperture to permit saliva, &c., to run freely thereto.

9 represents a spout inclined rearward from the aperture 8, so that the wind resulting from rapid motion of the car will tend to suck out rather than to blow in at the outlet of the spittoon. The pan 7 is fitted to be reversed in its bearing in the car-floor, so that the spout may always stand with its outlet facing rearward.

10 is a grating over the pan and serving as a cover therefor. The bars 11 of this grating may be of any desired pattern, but in cross-section, as seen in Fig. 1, they are preferably shaped to have the openings between them wider at the top than at the bottom to admit expectorations more readily. This grating is hung by means of trunnions 11, which rest in bearings in the upper edge of the pan 7, so that the grating may be swung upward on these trunnion-bearings to open the pan, and we locate these trunnions at a little distance from the rear edge of the grating, so that the end of an umbrella or cane may be pressed down upon the rear edge to raise the front edge of the grating, and thus open the cuspidor to admit trash. To prevent the point of the cane or umbrella from slipping on the grating, we provide a hollow or indentation 12 to receive the end of the cane or umbrella, as shown in dotted lines 13.

14 is a cap fitted to cover the aperture 8 to prevent cold air from coming up through the cuspidor. This cap is secured to the grating 10, to be raised therewith, so that when the grating is raised it also raises the cap 14, and any trash dropped into the pan of the cuspidor goes through and is discharged, and the cap does not fit the aperture 8 closely enough to prevent saliva from running out, so that there is little left in the cuspidor to be cleaned out at the end of a trip, and the cuspidor does not need to be made large enough to contain the material that is put into it. Just large enough to be hit by spitters is all that is required.

Having thus fully described our invention, what we believe to be new, and desire to secure by Letters Patent, is the following:

In cuspidors, a hopper-shaped pan having an aperture in its bottom, to which aperture the sides of the pan have an uninterrupted incline; a slanting spout the delivery of which

is rearward from the said aperture; a grating pivoted near one edge and covering the pan, and an inverted cup secured to the under side of the grating, the lower edge of the cup resting on the inclined surface of the hopper at some distance above its outlet when the grating is closed, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

GEORGE W. SHADE.
PAUL S. KNAPP.

Witnesses:
HENRY FISHER,
JOHN J. WAGNER.