

(No Model.)

K. WEINBERGER.  
SPITTOON FOR RAILWAY CARS.

No. 501,635.

Patented July 18, 1893.

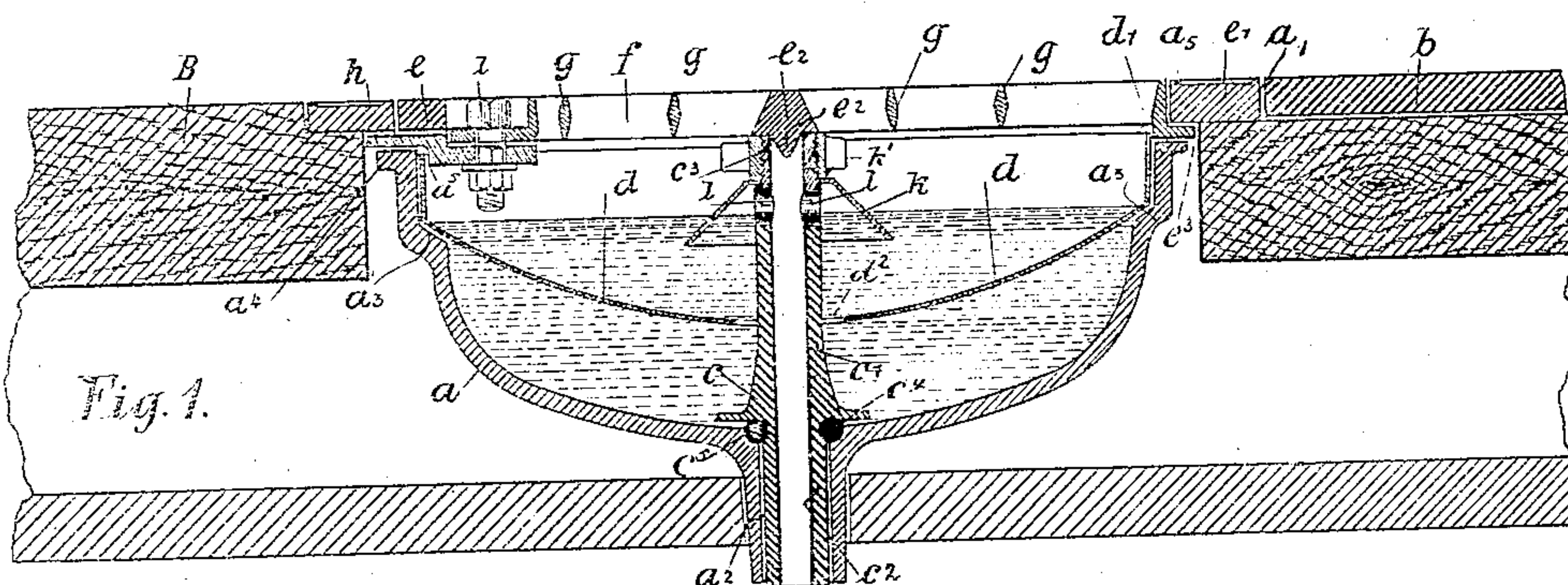


Fig. 2.

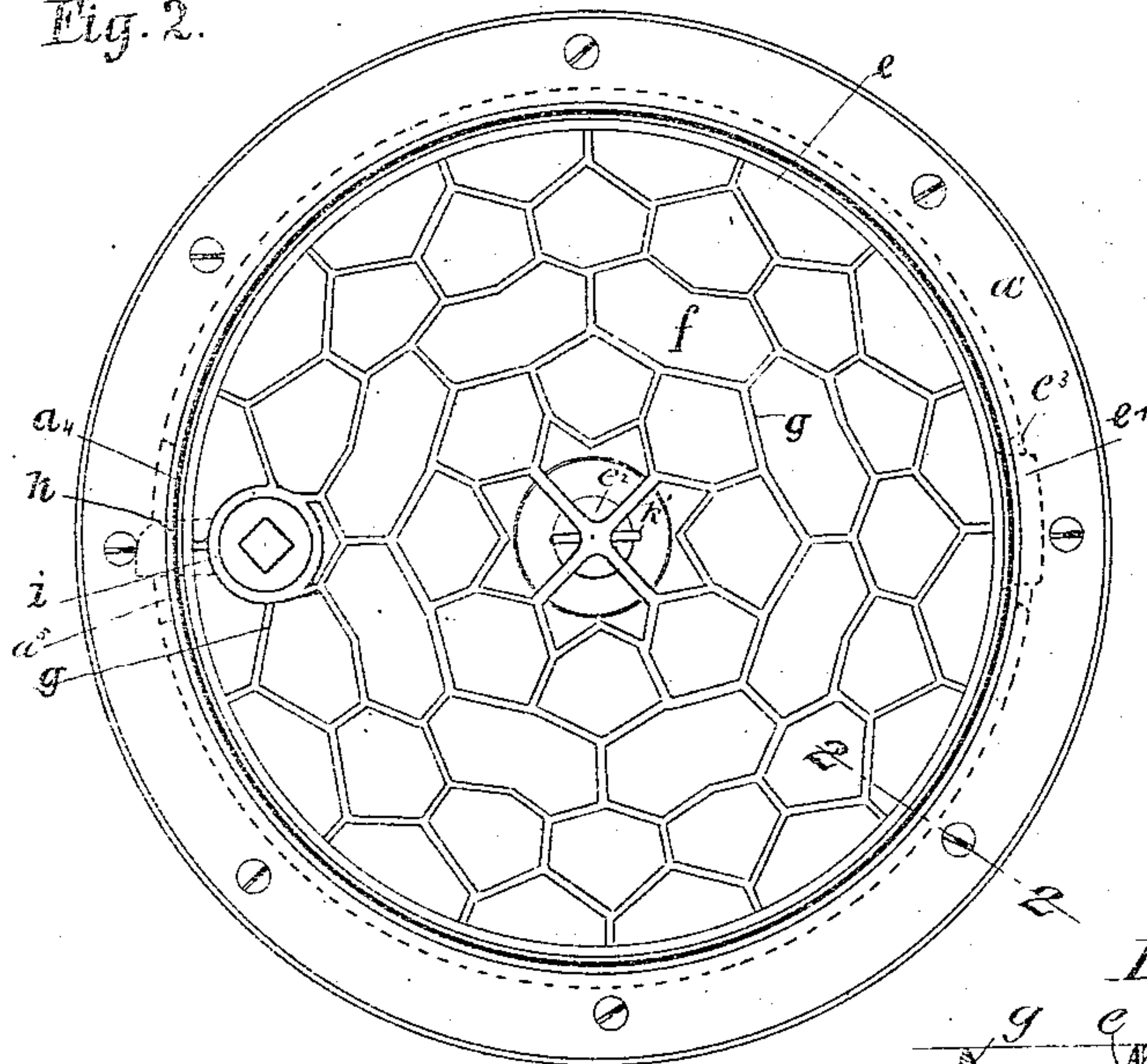
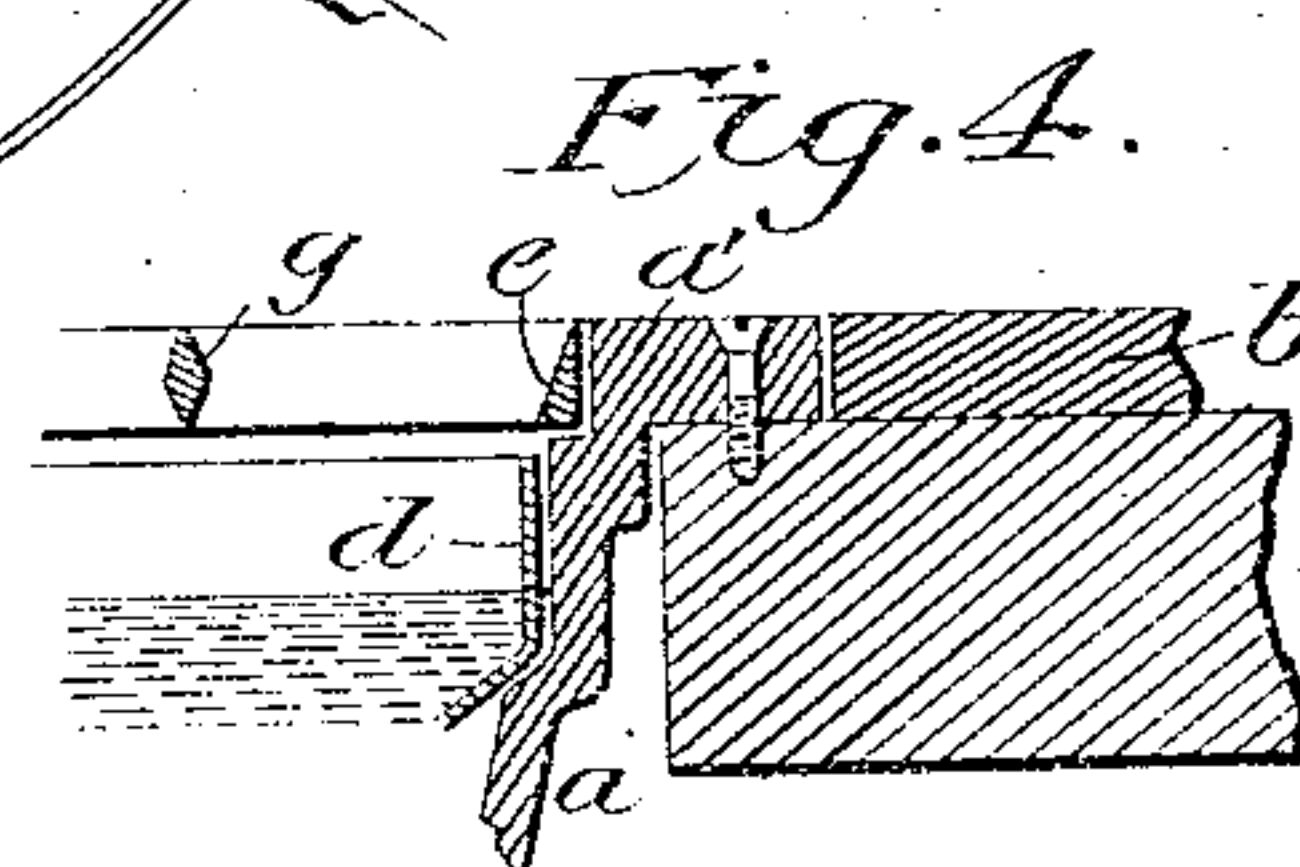
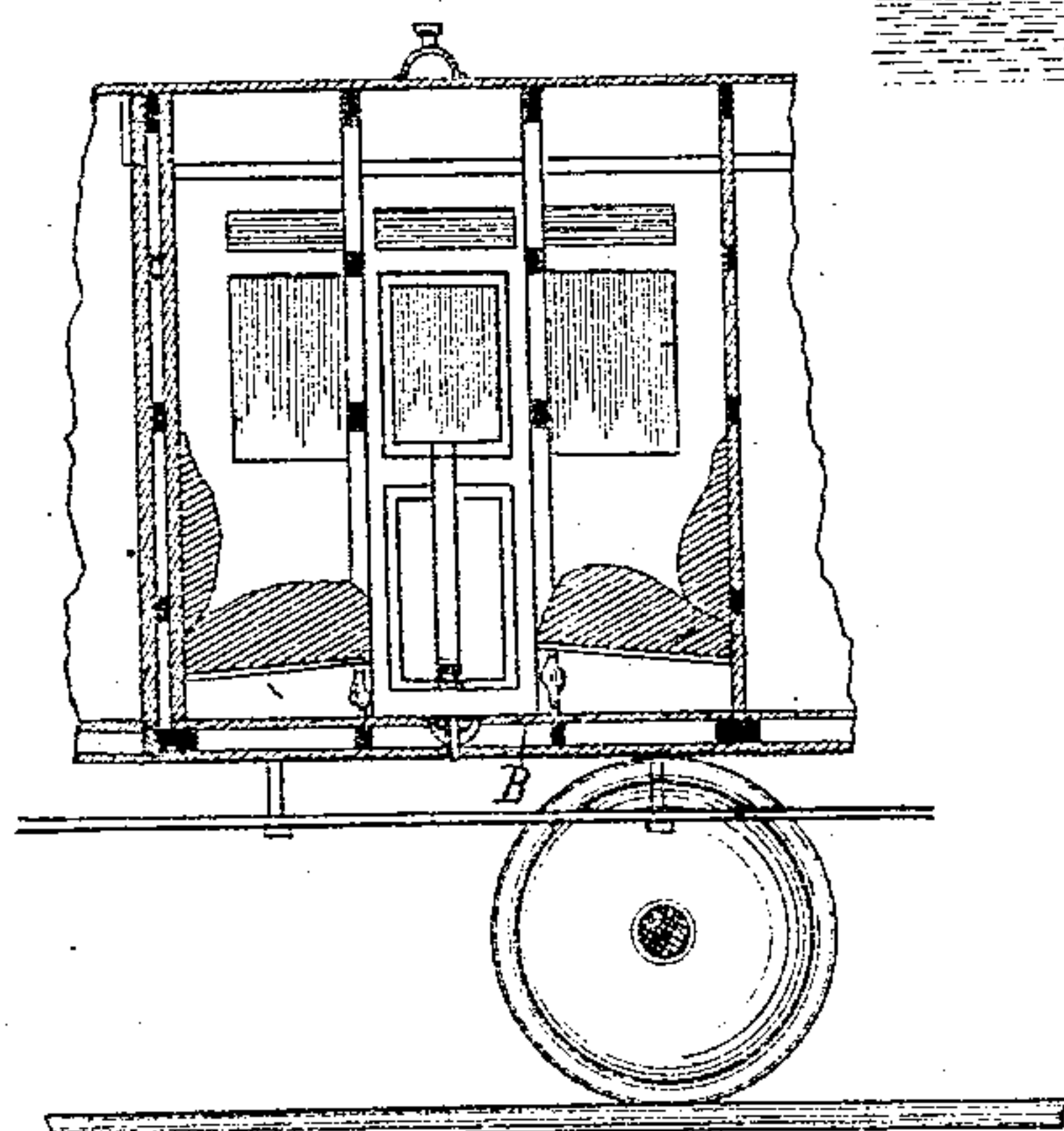


Fig. 3.



Witnesses:  
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Inventor  
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# UNITED STATES PATENT OFFICE.

KONRAD WEINBERGER, OF NUREMBERG, GERMANY.

## SPITTOON FOR RAILWAY-CARS.

SPECIFICATION forming part of Letters Patent No. 501,635, dated July 18, 1893.

Application filed June 24, 1892. Serial No. 437,897. (No model.)

To all whom it may concern:

Be it known that I, KONRAD WEINBERGER, a resident of Nuremberg, Bavaria, Empire of Germany, have invented an Improvement in Spittoons for Railway-Cars and the Like, of which the following is a specification.

My invention relates to a new and useful improvement in spittoons for railway cars and like vehicles, and consists in the arrangement and combination of parts therein as hereinafter described and specifically pointed out in the claims.

The object of my invention is to provide an odorless spittoon for railway cars, horse cars and other passenger vehicles, wherein it is essential that the spittoon should not occupy any room otherwise available, should not be liable to overflow, and that it should not restrict the movements of the passengers, but at the same time be easily accessible to the occupants, and so constructed that the handling of the spittoon, in the process of filling, emptying, cleaning, &c., can be simply and quickly accomplished.

Like letters refer to like parts in the various figures of the drawings, and in which—

Figure 1 is a partial section of my improved spittoon, in operative position, taken from the right to left-hand side of Fig. 2 and through the center thereof. Fig. 2 is a plan view of my spittoon; and Fig 3 is a longitudinal section of one compartment of a railway car embodying my invention. Fig. 4 is a sectional detail on the line 2—2 of Fig. 2.

The construction of my spittoon I will now proceed to describe as follows:

$a$  designates a vessel which forms the body of the spittoon and may be of any suitable material. This vessel is provided at its upper edge with an external flange  $a'$ , the upper surface of which flange is flush with the surface of the floor  $B$  or of the carpet  $b$  of the vehicle in which the spittoon is to be used, so that the entire body thereof will be below the flooring. Below this flange  $a'$  and formed in the body portion of the vessel  $a$  is an internal ledge or shoulder  $a^2$ ; and at the central portion of the bottom of the vessel is a downwardly extending discharge-pipe  $a^3$  for discharging the contents of the spittoon. It will be observed that the vessel  $a$  has a funnel-

like shape which facilitates the discharge of its contents.

Arranged to fit within the discharge-pipe  $a^3$  is the lower portion  $c^2$  of a pipe  $c$  provided with a flange  $c^4$ , which flange contacts with the packing-ring  $c^5$  when pressure is brought to bear upon the top of the pipe  $c$ , thus forming a discharge-valve for the vessel  $a$ . The upper portion  $c'$  of this pipe  $c$  is provided with a hood  $k$  arranged above the escape holes  $l$  formed in the pipe. The hood  $k$  is preferably secured in position by means of the thumb-nut  $k'$  screwed upon the upper end of the tube  $c$ , which nut bears upon and holds said hood in a rigid position against a shoulder formed upon the tube; it is obvious, however, that this hood may be secured in any well known manner without departing from the spirit of my invention.

Arranged within the containing vessel  $a$  and resting upon the internal shoulder  $a^2$  thereof, is an internal removable basin  $d$ , provided with a bottom sloping toward the center, and in this center is an opening  $d^2$  through which operates the valve  $c$  and which also establishes a source of communication between the basin and the lower portion of the containing vessel  $a$ , for purposes hereinafter described.

Over the mouth of the containing vessel  $a$  is situated a grating  $e$  of any suitable form, provided with openings  $f$  and supporting webs  $g$ , which grating is preferably secured in position by the lug  $e'$  carried on one side of the grating and which enters slot  $e^3$  provided in the upper portion of the vessel  $a$ , but underneath the flange  $a'$  or where the flange  $a'$  and vessel  $a$  meet. Diametrically opposite the slot  $e^3$  is a second similar slot  $a^5$  for the reception of the latch  $h$  attached to the key-post  $i$ . In the center of this grating  $e$  is formed a downwardly projecting plug  $e^2$ , which, when the grating is locked, engages and holds the valve  $c$  in its seat and firmly against the packing-ring  $c^5$ , so that a perfectly tight joint is formed.

The operation of my invention is as follows: After the spittoon has been placed in the aperture provided for it in the floor of the car or other vehicle, the valve pipe  $c$  is placed in position with its lower portion  $c^2$



entering the discharge tube  $a^2$ ; the internal basin  $d$  is then placed in position in the vessel  $a$  and rests upon the internal shoulder  $a^3$  thereof, the upper portion of the valve  $c$  protruding through the hole  $d^2$  formed in the center of said basin. The hood  $k$  is then fastened in position by the thumb-nut  $k'$  and the containing vessel  $a$  is partially filled with water or disinfecting liquid; the grating  $e$  is then locked in position, the plug  $e^2$  engaging the valve pipe  $c$  and holding it in a closed position, at the same time preventing odors from arising through the upper open end of the tube or valve  $c$ . The spittoon is then ready for use and the expectoration which goes through the grating settles and is carried by the sloping bottom of the basin  $d$  through the opening  $d^2$  in the center thereof, into the vessel  $a$ . If there be any odor arising from the precipitated expectoration, it is caught by the hood  $k$  and allowed to escape into the open air through the holes  $l$  in the valves  $c$ . It will be seen that the escape holes  $l$  serve as an overflow for the excess of liquid, so that the spittoon can never be filled above a certain height, determined by the position of the escape holes  $l$  in the valves  $c$ . The basin  $d$  and the hook  $k$  also act to prevent the contents of the spittoon from being dislodged or thrown up through the grating.

Having described my invention, what I

claim, and desire to secure by Letters Patent, is—

1. The combination of the grating  $e$ , containing vessel  $a$ , overflow  $l$  located beneath said grating  $e$  and discharge valve  $c$  adapted to control the discharge of the contents of said containing vessel  $a$ , substantially as described. 35
2. The combination of the grating  $e$ , containing vessel  $a$ , and the discharge valve  $c$  provided with overflow holes  $l$ , located beneath said grating  $e$  substantially as described. 40
3. The combination of the grating  $e$ , containing-vessel  $a$  beneath said grating, and provided with perforated internal basin  $d$  located within the said containing-vessel  $a$  and discharge valves  $c$ , all arranged substantially as described. 45
4. The combination of the removable grating  $e$ , containing-vessel  $a$ , located beneath said removable grating, basin  $d$  and valve  $c$  adapted to be seated by said removable grating, substantially as described. 50
5. The combination of the containing-vessel  $a$ , with removable grating  $e$ , hood  $k$ , internal basin  $d$ , and valve  $c$ , having escape-openings  $l$  which form overflows for the containing-vessel, substantially as described. 55

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Witnesses:

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