No. 622,696. Patented Apr. 11, 1899.

C. F. KRAUSE, JR.

FUNNEL.

(Application filed Apr. 1, 1898.)

(No Model.)

FIG. 1.

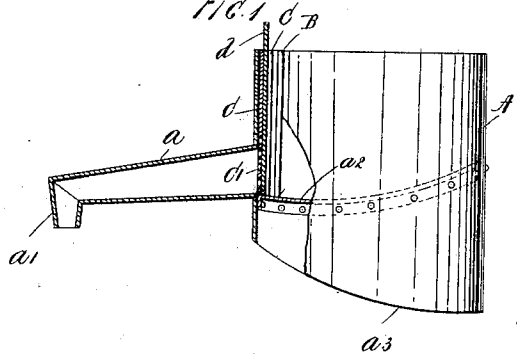


FIG. 2.

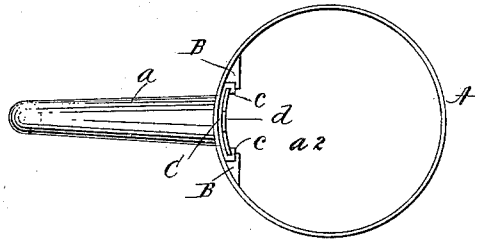
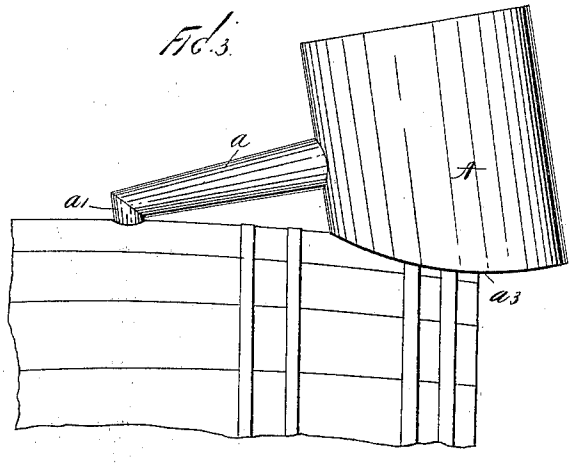


FIG. 3.



WITNESSES

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UNITED STATES PATENT OFFICE.

CHARLES FRANCIS KRAUSE, JR., OF UNION, HUDSON COUNTY, NEW JERSEY.

FUNNEL.

SPECIFICATION forming part of Letters Patent No. 622,696, dated April 11, 1899.

Application filed April 1, 1898. Serial No. 676,119. (No model.)

To all whom it may concern:

Be it known that I, CHARLES FRANCIS KRAUSE, Jr., a citizen of the United States, residing at Union Hill, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Funnels, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

This invention relates to funnels; and it has for its object to provide a simple and improved device of this character which will be especially adapted for convenient use in filling barrels and which will provide a direct rest or support for the body portion of the funnel upon the barrel.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by the same letters of reference in each of the views, and in which—

Figure 1 is a side elevation, partly in section, of my improved funnel. Fig. 2 is a top or plan view, and Fig. 3 is a side view showing the funnel in operative position upon the barrel.

Referring to the drawings, A designates the body of the funnel, which is of cylindrical contour and provided at one side with a laterally-projecting spout a, having a downturned outlet end a', adapted to be received within the bung-hole of the barrel or other device. The spout a leads from an upwardly-curved bottom a^2, which is interiorly arranged within the cylinder forming the body A. The sides of the portion of the cylinder A which projects below the interior bottom a^2 are segmentally curved at their bottom edges upwardly and forwardly toward the spout a, as shown at a^3, so that they conform to and are adapted to rest upon the curved or segmental end portions of the barrel, as shown in Fig. 3, the end of the barrel being received in the space within the cylinder A beneath the interior bottom a^2.

B B designate guides which are interiorly and vertically arranged upon the front wall of the cylinder A at opposite sides of the spout-opening and extend to the bottom a^2. Within these guides is slidably mounted a plate C, having perforations c' at the spout-opening, through which the contents of the funnel can be drained into the spout, said slidably-mounted plate being itself provided with guides $c\,c$ at its side edges, between which is slidably mounted a vertical closure-plate d, adapted to be operated to close the perforations or openings c'. By removing the plate C and its supplementary closure-plate d the contents of the funnel will have an unobstructed passage into the spout; but when the plate C is in position within its guides B the slide-plate d can be operated to open or close communication with the spout, whereby the passage of the contents of the funnel into the latter is controlled, or may be shut off to save waste, as desired.

The operation and advantages of my invention will be readily understood. By means of the improved construction and arrangement, as above described, the body is firmly and effectively supported upon the rounded or segmental end of the barrel during the operation of the funnel, so that there is no liability of displacement by reason of the weight of the fluid contents of the funnel.

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

1. An improved funnel, comprising a body formed of a cylinder and having a laterally-projecting spout toward which inclines an interior bottom, the portion of the body below said interior bottom being adapted to receive the curved end of a barrel or other device, substantially as and for the purpose set forth.

2. An improved funnel, comprising a cylindrical body having a laterally-projecting spout toward which inclines an interior bottom, the portion of said cylindrical body below said interior bottom being curved segmentally at its bottom edge to conform to the curvature of a barrel or other device, substantially as and for the purpose set forth.

3. An improved funnel, comprising a cylindrical body having a laterally-projecting spout provided with a downturned outlet end, said body carrying interiorly a bottom in-

clined toward said spout and having the bottom edge of its lower portion beneath said interior bottom curved segmentally upwardly and forwardly toward said spout, substantially as and for the purpose set forth.

4. An improved funnel, comprising a cylinder or body and a spout projecting laterally therefrom, and a plate sliding in guides within the body of the funnel and with respect to the spout-opening, substantially as and for the purpose set forth.

5. An improved funnel, comprising a cylinder or body from which extends a lateral spout, said body being interiorly provided with vertical guides, and a perforated plate operating in said guides with respect to the spout-opening, substantially as and for the purpose set forth.

6. An improved funnel, comprising a cylinder or body from which extends laterally a spout, said body being interiorly provided with vertical guides, a perforated plate vertically sliding within said guides with relation to the spout-opening and itself provided with guides, and a closure-plate sliding within the guides of the perforated plate, substantially as and for the purpose set forth.

7. An improved funnel, comprising a body formed of a cylinder and having a laterally-projecting spout and an interior bottom, the portion of the body below said interior bottom being adapted to receive the curved end of a barrel or other device, substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 30th day of March, 1898.

CHAS. FRANCIS KRAUSE, JR.

Witnesses:
L. M. MULLER,
M. A. KNOWLES.