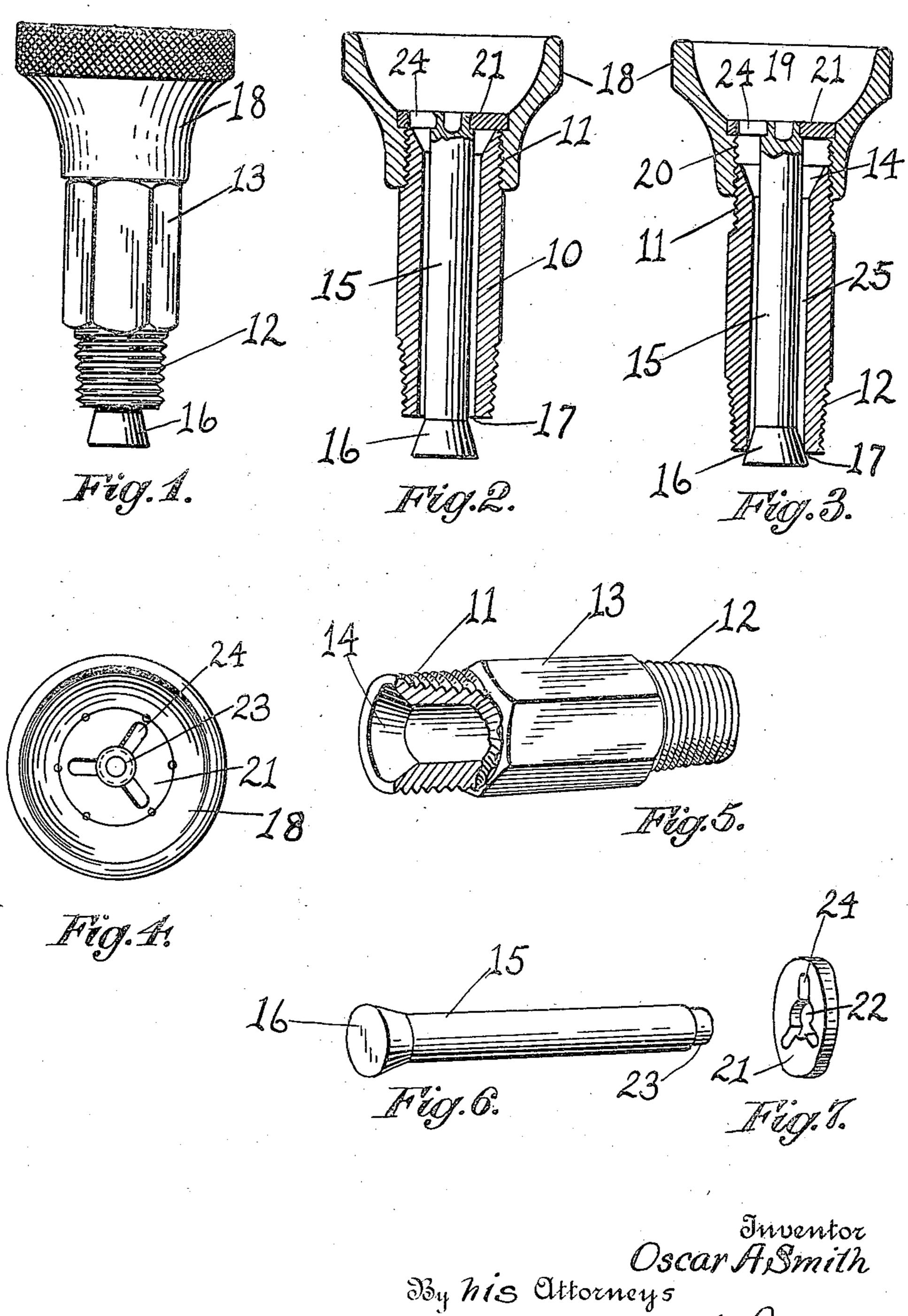
0. A. SMITH. PRIMING CUP, FILED MAR. 1, 1921.



Oscar Asmith
By his attorneys
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## UNITED STATES PATENT OFFICE.

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Application filed March 1, 1921. Serial No. 448,819.

a citizen of the United States, residing at and stem; and Fig. 7 is a perspective view East Cleveland, in the county of Cuyahoga of the valve cup member. 5 and State of Ohio, have invented certain In its preferred form herein shown and fication.

10 for internal combustion engines, an object purposes, and comprises a body member 10, 15 be manufactured readily at a minimum of At its upper end the body member 10 is expense, and will be effective and durable in provided exteriorly thereof preferably with use.

20 able in the direction of flow of the fluid body member 10 adjacent to its upper end the latter being carried by the body portion gasoline or other fluid to the valve. of the device, and adapted to be shifted The valve member in this priming device 75 relatively thereto for opening or closing the comprises the usual elongated stem 15 tervalve.

directions, to open and close the valve.

axially bored body member terminating in a the taper of the valve 16, such for instance valve seat, and a valve cooperating there- as illustrated in my Patent No. 1,153,457, with and having its stem connected or secured to the fluid receiving chamber or cup interiorly thereof.

To all whom it may concern: spective view thereof, parts being removed; Be it known that I, Oscar A. Smith, Fig. 6 is a perspective view of the valve

new and useful Improvements in Priming described my improved test or priming cup, Cups, of which the following is a speci- although particularly constructed for use with internal combustion engines, is of This invention relates to priming cups course adapted to be used for various other 60 thereof being to provide an improved test drilled to form an axial passage-way thereor priming cup for admitting or introducing through, and provided at its lower end with a priming fluid such as gasoline into the straight right-hand threads 12 to permit the cylinder of the engine and which cup can device to be attached to the cylinder head. 65 straight left-hand threads 11, the central A further object of this invention is to portion 13 of the body being angularly provide a priming cup having a valve open- formed for the reception of a wrench. The 70 and controlled in its operation through the is chambered or counter-bored, as at 14, to medium of a cup or fluid receiving chamber, permit greater freedom for the flow of the

minating at one end in a valve 16, which in A further object of this invention is to the present embodiment is shown as a taprovide a priming device wherein the fluid pered valve adapted to cooperate with the receiving chamber or cup portion is threaded valve seat 17 formed at the lower end of 80 exteriorly to the body of the device and the body member 10. In the present inshiftable, by rotating the same in successive stance the valve seat 17 is shown as having straight walls, but it will be understood that A further object of this invention is to the same may be provided with tapered provide a priming device comprising an walls or faces conforming substantially to 85

dated Sept. 14, 1915. My improved priming device is provided with a fluid receiving chamber or cup- 90 Other objects of this invention will ap- shaped member 18 formed interiorly thereof pear in the following description thereof, with the chamber 19 for the reception of reference being had to the accompanying the priming fluid. The cup 18 has interior drawing forming a part of this specification threads 20 cooperating with the exterior wherein like reference characters indicate threads 11 of the body member 10, and is 95 45 corresponding parts in the several views provided intermediate its depth with a bushand wherein Fig. 1 is a side elevation of ing 21, spun or otherwise secured therein. my improved priming cup with the valve This bushing 21 is adapted to form a base open; Fig. 2 is a sectional view thereof; for the priming cup and the portion 23 of Fig. 3 is a sectional view similar to Fig. 2 the stem 15 is fastened or secured in any 100 50 with the valve closed; Fig. 4 is a top plan suitable way to the center 22 of the bushview of this priming cup; Fig. 5 is a per- ing. In order to permit the passage of the

perforated or provided with suitable open-fluid chamber threaded exteriorly to said ings 24. In the present instance the body body member and shiftable relatively to member 10 is spaced as at 25 from the stem said body member for opening and closing 5 15 thereby to form a passage for the flow said valve. of the fluid to the valve, although it is to be 6. As an article of manufacture, a primunderstood that any other suitable passage- ing device comprising in combination a

valve is connected to the chamber interiorly fluid. 15 thereof, the same will be opened and closed 7. A priming device comprising a valve 80 upon shifting the chamber in successive di- and its stem, a body surrounding said stem, to open the valve in the direction of flow of to open said valve in the direction of flow 20 the fluid, and hence because of the fact that of the fluid. the valve opens downwardly, the possibility 8. A priming device comprising a valve terfering with their operation is eliminated.

Although I have described my invention 25 in its preferred form it is to be understood that I do not limit myself to the construction herein shown and described except in so far as defined in the claims and embraced within

the scope thereof.

30 I claim as my invention:

1. A priming cup for internal combustion engines comprising a body member the exterior of said body to open and close having a passage therethrough, a valve said valve. communicating with said passage, and a 10. A priming device comprising a valve 35 fluid receiving chamber shiftable upon the and its stem, a body surrounding said stem, 100 outside of said body member for opening a cup having a base located intermediate

40 having a passage therethrough, a valve valve in the direction of flow of the fluid. 105

ceiving member threaded exteriorly to said chamber. valve.

4. A priming cup for internal combus- chamber, and a valve shiftable with said 120 with, and a fluid chamber mounted upon member.

of flow of the fluid.

fluid from the chamber 19, the base 21 is communicating with said passage, and a

way may be provided for the flow of the body member, a valve stem surrounded by fluid from the cup to the valve. said body member and having a valve lo-Thus it will be seen that I have provided cated at the lower end of the body member, 75 a priming device wherein the fluid receiving a priming cup secured to the stem and chamber is shiftable exteriorly of the body shiftable relatively to said body to open member, and by virtue of the fact that the the valve in the direction of flow of the

rections relatively to the body member. a cup secured to the stem interiorly thereof Furthermore the cup or chamber is shiftable and shiftable upon the outside of the body

of carbon or soot clogging the parts or in- and its stem, a body surrounding said stem, a cup secured to the stem, and shiftable outside of said body to open the valve in the direction of flow of the fluid, said body and 90 stem having a passage-way communicating with said cup.

9. A priming device comprising a valve and its stem, a body surrounding said stem, a cup having a perforated base and secured 95 to the stem, said cup being shiftable upon

and closing said valve.

its depth and secured to the stem, said cup 2. A priming cup for internal combus- being threaded to the outside of the body tion engines comprising a body member and shiftable relatively thereto to open said

communicating with said passage, and a 11. A priming device comprising a valve fluid receiving chamber threaded upon the and its stem, a body surrounding said stem, outside of said body member and shiftable a fluid receiving chamber having a base loin the direction of flow of the fluid thereby cated intermediate its depth and provided to shift said valve to open the same. with openings therethrough, said stem be- 110 3. A priming cup for internal combus- ing secured to the base interiorly of said tion engines comprising a body member cup, said cup being shiftable upon the exhaving a passage therethrough, a stem pro-terior of the body to open and close said vided with a valve at one end and extend- valve, said body and stem having a passage-50 ing through said passage, and a fluid-re- way therebetween communicating with said 115

body member and shiftable in the direction 12. As an article of manufacture, a primof flow of the fluid thereby to open said ing device comprising in combination a body member, a shiftable fluid receiving tion engines comprising a body member fluid receiving member and cooperating having a passage, a valve cooperating there- with the extreme lower end of the body

the outside of said body and shiftable there- 13. As an article of manufacture the com-60 over for opening the valve in the direction bination of a body, a valve located at and 125 f flow of the fluid.

5. A priming cup for internal combus- body, and a chambered member located at tion engines comprising a body member the opposite extreme end of the body and having a passage therethrough, and termin-shiftable relatively thereto and connected 65 ating at one end in a valve seat, a valve to said valve whereby the latter is shift- 130

able with said member to open and close thereto and connected to said valve whereby the valve.

bination of a body, a valve located outside the fluid. 5 one end of the body, and a chambered mem- Signed at Cleveland, Ohio, this 26th day ber adapted to be located outside the op- of February, 1921. posite end thereof and shiftable relatively

the latter is shiftable with said member to 14. As an article of manufacture, the com- open the valve in the direction of flow of 10

OSCAR A. SMITH.