No. 877,342. PATENTED JAN. 21, 1908.

W. S. JACKSON.

REVERSIBLE MAGAZINE FOR STOVES.

APPLICATION FILED MAY 7, 1907.

Fig. 1.

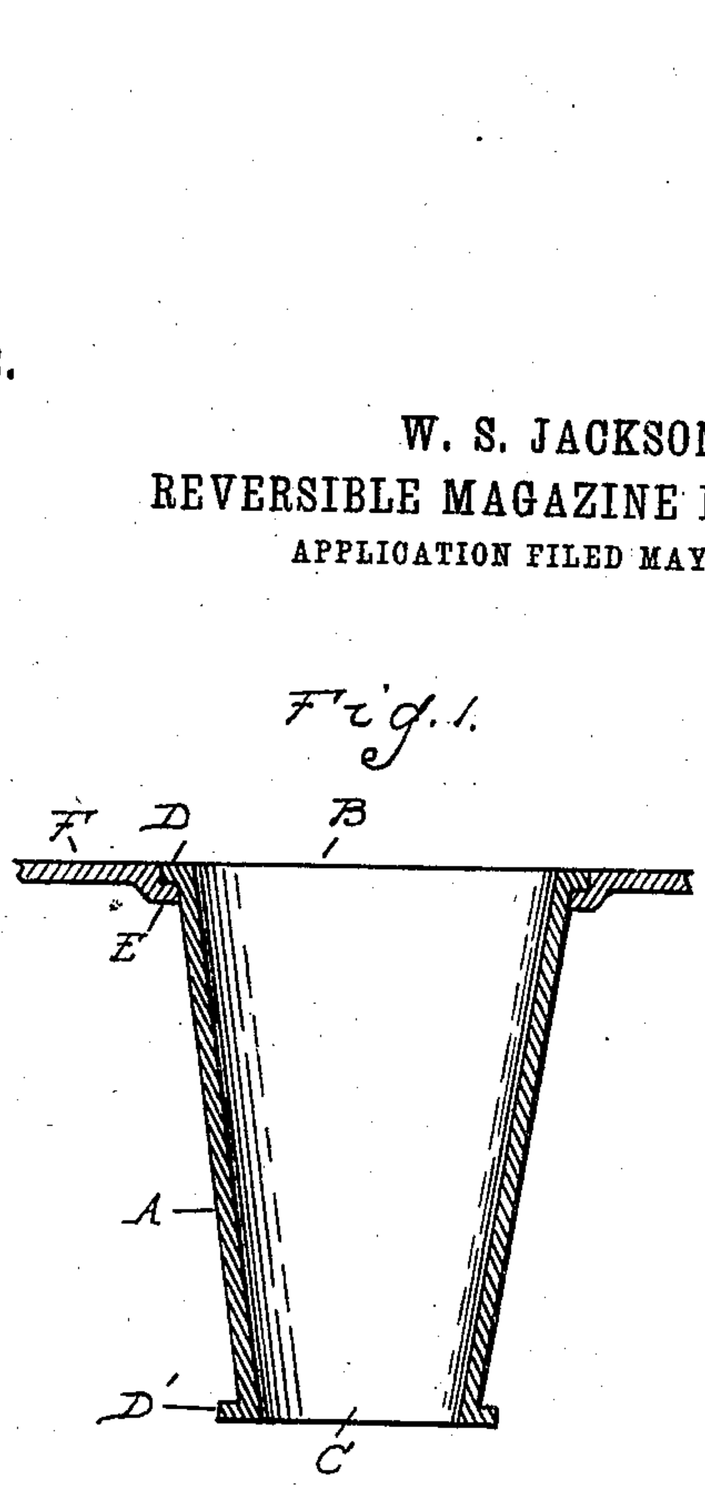

Fig. 2.

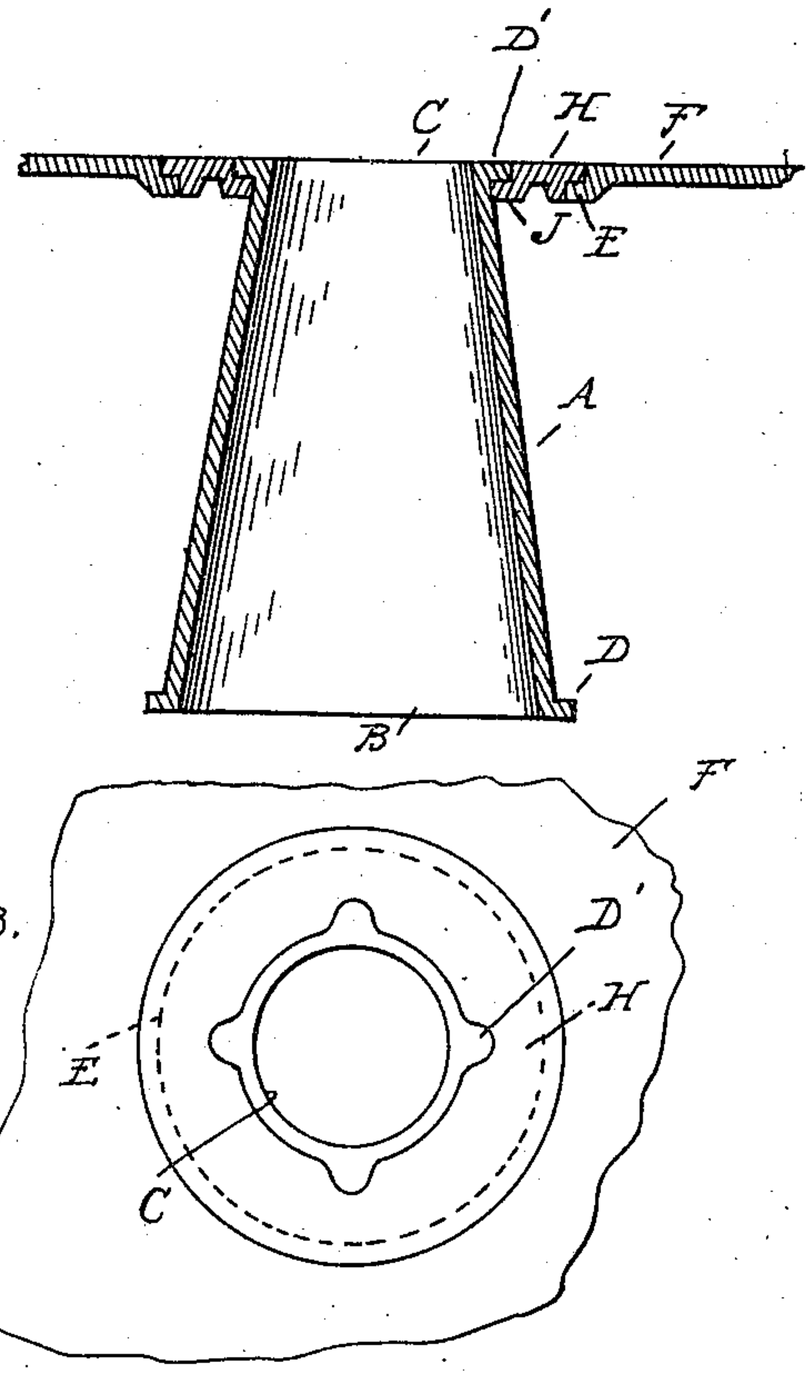

Fig. 3.

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UNITED STATES PATENT OFFICE.

WILLIAM S. JACKSON, OF DETROIT, MICHIGAN.

REVERSIBLE MAGAZINE FOR STOVES.

No. 877,342. Specification of Letters Patent. Patented Jan. 21, 1908.

Application filed May 7, 1907. Serial No. 372,403.

To all whom it may concern:

Be it known that I, WILLIAM S. JACKSON, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Reversible Magazines for Stoves, of which the following is a specification, reference being had therein to the accompanying drawings.

It is the object of the invention to obtain a construction of magazine for stoves which is capable of being used with either anthracite or bituminous fuel.

Where anthracite fuel is employed, a magazine which is contracted at its discharge end is preferable, as this combines capacity with the covering of a relatively small area of the fuel in the fire pot. On the other hand, where bituminous coal is used, this will coke in the magazine, so that it cannot be dislodged or fed into the fire pot unless the magazine enlarges towards its discharge end. In my construction, I have provided for each of these conditions by forming a tapering magazine, which is reversible, and when used for anthracite coal has its contracted end at the bottom, while for bituminous coal the enlarged end is at the bottom and the small end at the top.

In the drawings, Figure 1 is a vertical central section through the magazine and a portion of the stove in which it is used, the arrangement being for the use of anthracite fuel; Fig. 2 is a similar view, with the magazine reversed for the use of bituminous fuel; and Fig. 3 is a plan view of the top of the stove, with the magazine attached thereto.

My improved magazine comprises a tapering shell A, preferably formed of cast metal, and having an enlarged end B and contracted end C. Each end is provided with means for attaching it to the stove, preferably outwardly-projecting lugs or flanges D, which engage bearings or seats. As shown the stove body F is formed with an annular seat E, with which the bearing D at the large end of the magazine is engaged, while for supporting the small end an annular plate H is fitted in the bearing E, and is itself provided with a bearing J for receiving the lugs or flanges D′.

With the construction as described, when the stove is used for anthracite coal, the magazine is arranged as shown in Fig. 1. To convert it into a soft coal stove, the magazine is removed, the annular plate H engages with the bearing E, and the inverted magazine engages with this plate, as shown in Fig. 2.

What I claim as my invention is:

1. The combination with a stove, of a magazine therefor comprising a tapering shell, and means for attaching said shell in reversed positions.

2. The combination with a stove casing, having an apertured top, of a magazine comprising a tapering shell, and means for attaching either end of said magazine with said casing so as to register with the aperture in the top thereof.

3. The combination with a stove casing, of a magazine comprising a tapering shell, an apertured bearing on said casing for engaging the large end of said shell, and a reduced ring or annular plate for fitting said apertured bearing to the small end of the shell.

4. The combination with a stove casing, of a magazine comprising a tapering shell, lugs or bearings on each end of said shell, coöperating bearings on said casing for the large end of said shell, and a reducing ring forming the coöperative bearings for the small end of the shell.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM S. JACKSON.

Witnesses:

NELLIE KINSELLA,

JAMES P. BARRY.