

J. L. HAIR.
COAL HOD.
APPLICATION FILED JAN. 18, 1909.

970,218.

Patented Sept. 13, 1910.

Fig. 1.

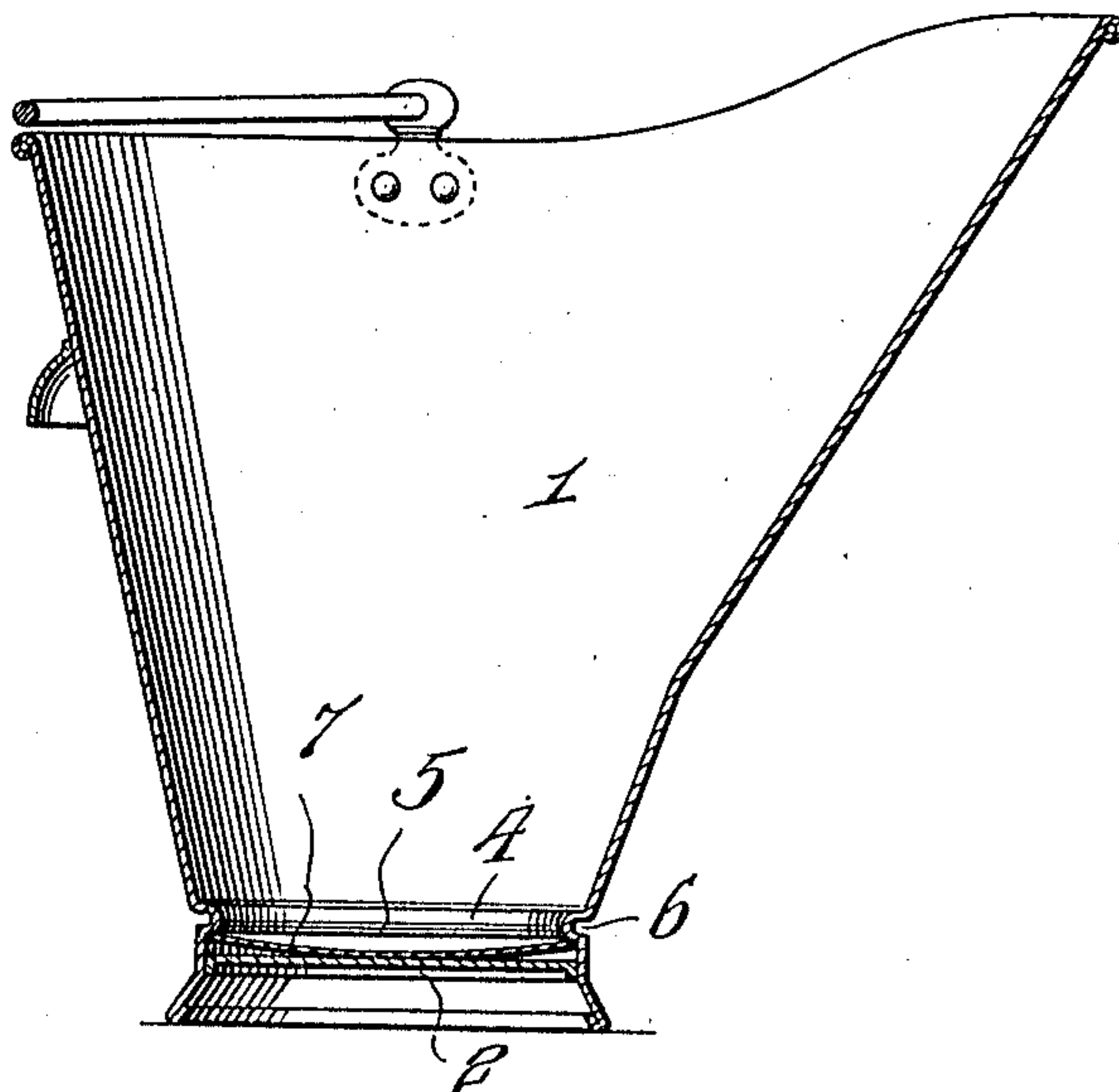


Fig. 3.

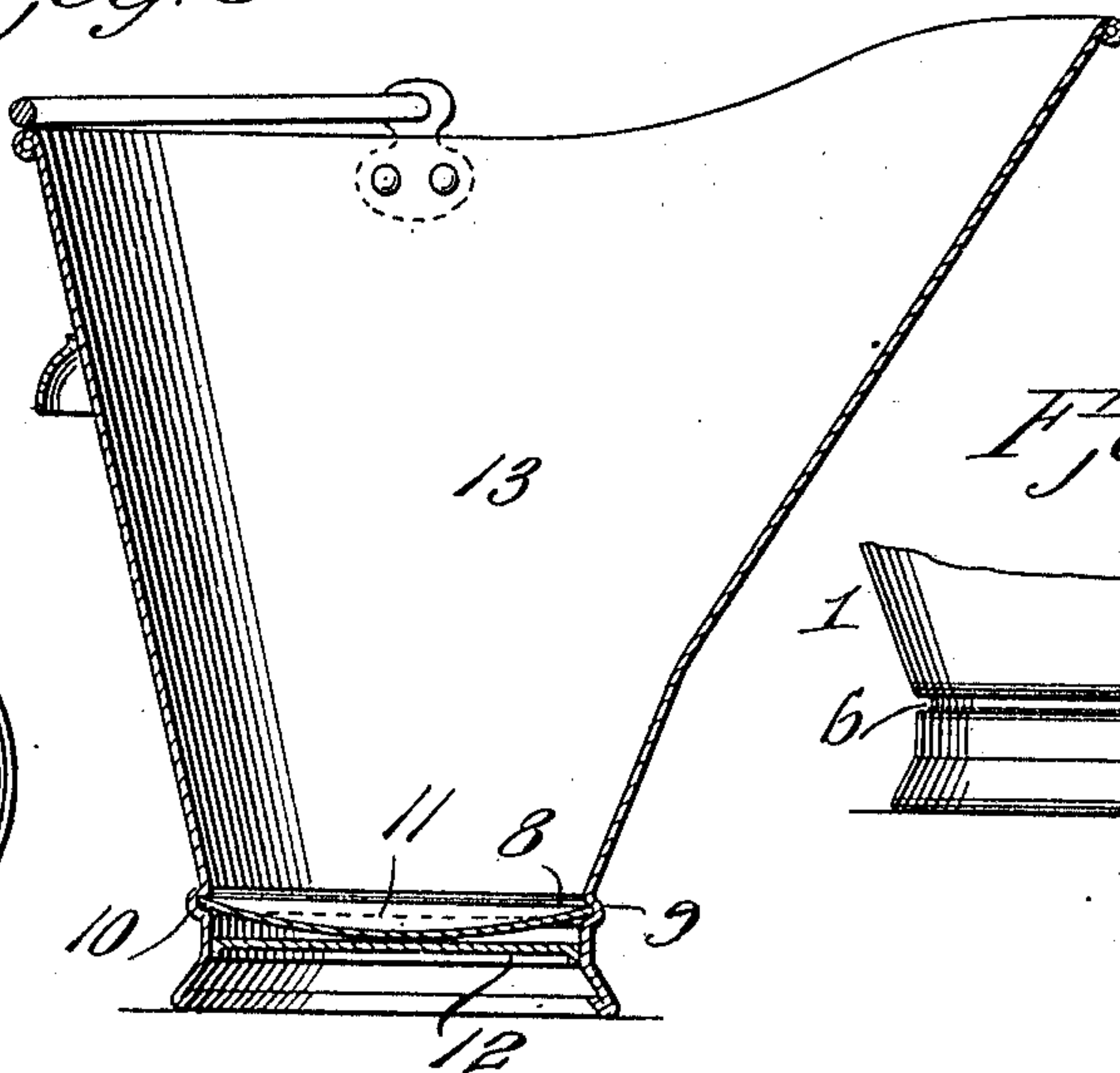


Fig. 4.

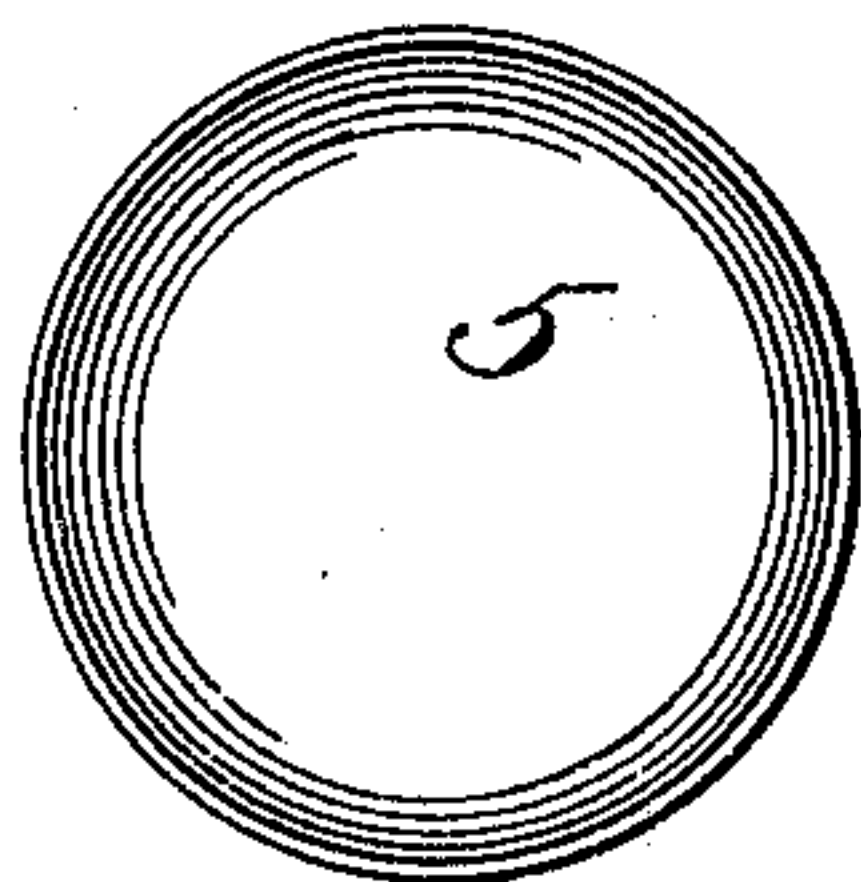
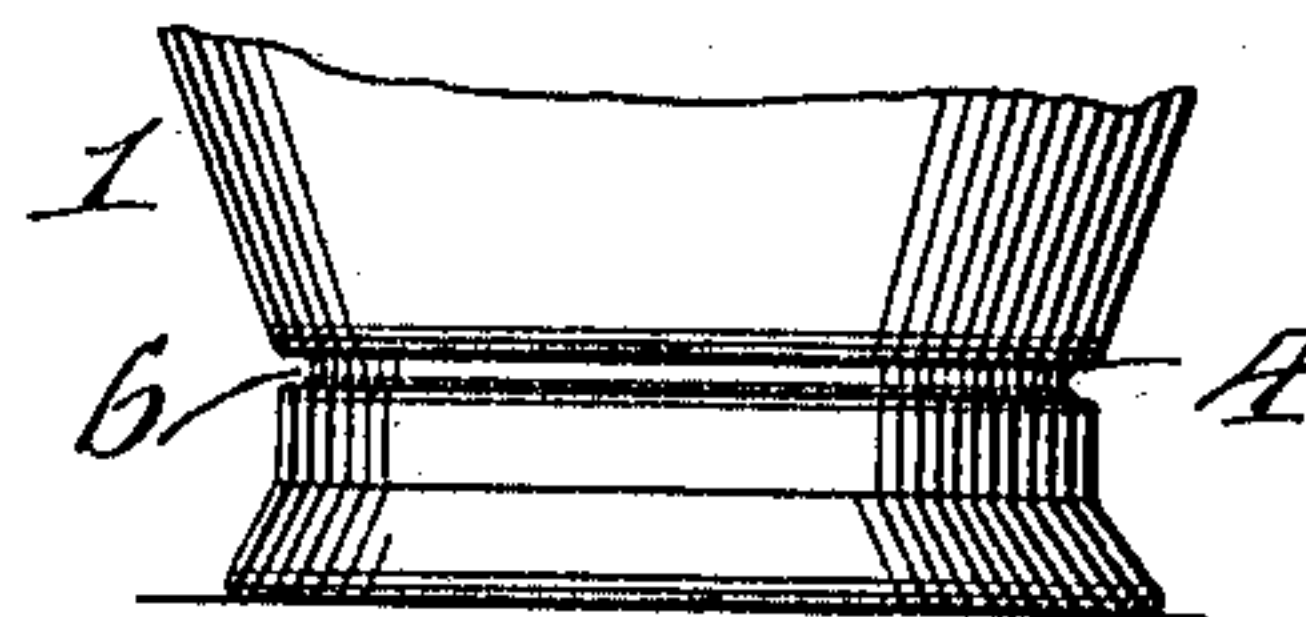


Fig. 2.



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UNITED STATES PATENT OFFICE.

JAMES L. HAIR, OF ST. ELMO, TENNESSEE.

COAL-HOD.

970,218.

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To all whom it may concern:

Be it known that I, JAMES L. HAIR, a citizen of the United States, residing at St. Elmo, in the county of Hamilton and State of Tennessee, have invented new and useful Improvements in Coal-Hods, of which the following is a specification.

My invention relates to improvements in coal hods, the object of the invention being to provide a coal hod with a false bottom in addition to the bottom so as to greatly strengthen the construction and durability of the hod and make the same available until both the false bottom and the bottom have been worn out.

The invention consists of a hod having a body, a bottom and a false bottom, the body having a shoulder on its inner side near the bottom and the said false bottom being dished, bearing centrally on the bottom and having its body engaged under said shoulder, as hereinafter more fully described and claimed.

In the accompanying drawings:—Figure 1 is a sectional view of a hod constructed in accordance with my invention. Fig. 2 is a detail elevation of the lower portion of the same. Fig. 3 is a sectional view showing a modified construction of the hod. Fig. 4 is a plan of the dished false bottom.

The body 1 of my improved hod may be of any shape or design and formed in said body at a suitable distance above the lower edge of the body is a bead 4 which extends inwardly forming an annular inner shoulder about said body, the shoulder 5 thus formed providing an annular bearing surface and in consequence a groove 6 on the outside of the body. Securely fixed within the body of the hod and at a suitable distance below the annular shoulder is a flat supporting bottom 2 and interposed between said annular flange and bottom is a false bottom 7 which is made of any suitable metal or other material and is dished, that is to say, is concavo-convex in cross section and is located within the body with its concaved surface uppermost in the bottom of the vessel, and its convex surface bearing centrally on the flat bottom of the vessel and with its circular

upper-turned edge bearing rigidly under the circumferential shoulder of the body of the vessel so that the said false bottom is tightly held between the central point of the flat bottom and said circumferential shoulder for holding it in place thereby leaving an annular increased space from the center or contacting surfaces of the two bottoms outwardly to the body 1.

In the form of the invention shown in Fig. 3, the shoulder 8 is formed by the upper edge of a bead 9 which projects outwardly from the body and presents a circumferential groove 10 on the inner side of said groove, the upper side of which is formed by the shoulder 8 engaging the edge of the dished false bottom 11. The bottom in this form of the invention is indicated at 12, the body of the hod being indicated at 13.

From the foregoing, it will be understood that a hod constructed in accordance with my invention and embodying my improvement is only very slightly more expensive to make than an ordinary hod provided only with a bottom and it will be obvious that since I provide my improved hod with a false bottom as well as a bottom, the said hod is very materially stronger than an ordinary hod and is very much more durable since it may be used until both false bottom and the bottom have been worn out.

By the practical arrangement and coöperation of the two bottoms the one being dished and the other flat as shown and described it is apparent that the flat bottom assists the dished bottom in furnishing wear and durability to the hod and further it is apparent that a bottom so constructed will support a greater amount of weight that may be located upon the bottom as it is always the central point of the bottom that is first destroyed and becomes useless.

What is claimed is:—

A coal hod comprising a body having a concaved annular shoulder at a suitable distance above its lower edge, a rigid, flat, true bottom secured within the body of the hod and at a suitable distance below the said annular concaved shoulder, a concavo-convex false bottom disposed with the central por-

tion of its convex face bearing on the corresponding portion of the upper face of the true bottom and having its periphery arranged in the concavity of the said shoulder
5 whereby an annular increasing space is formed from the central contact points of the two bottoms to the body.

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

JAMES L. HAIR.

Witnesses:

R. H. MADDUX,
WM. W. WOOD.