

U. D. ALEXANDER.
Coal-Hod.

No. 162,454.

Patented April 27, 1875.

Fig. 1.

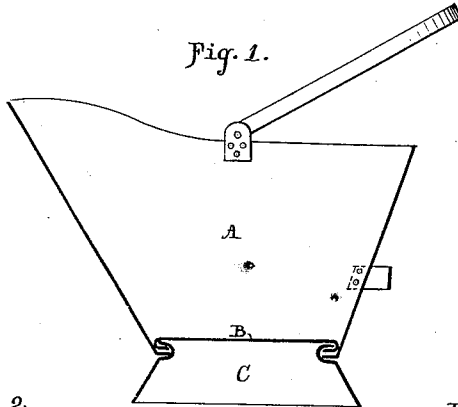


Fig. 2.

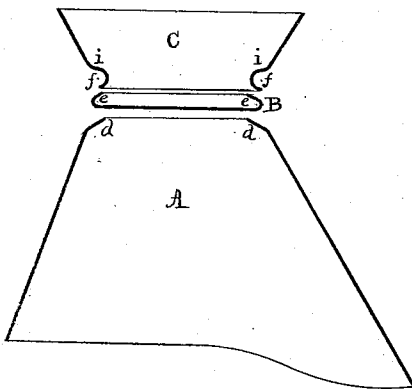


Fig. 3.

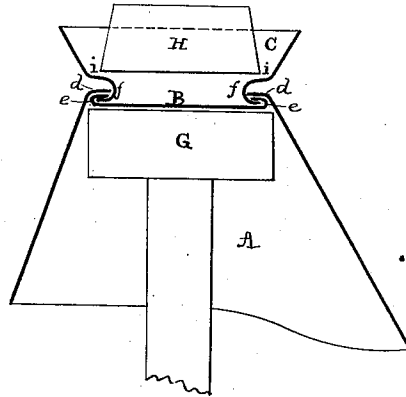


Fig. 4.

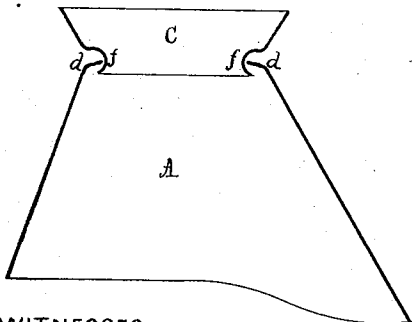
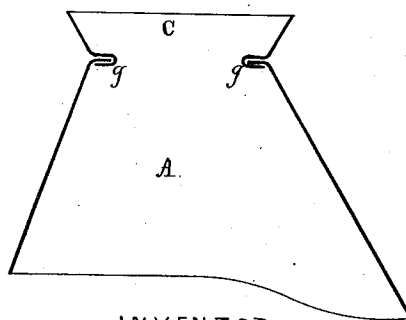


Fig. 5.



WITNESSES:

Charles Ritchie.
Albert Olendorf.

INVENTOR.

Urbana D. Alexander.

UNITED STATES PATENT OFFICE.

URBANA D. ALEXANDER, OF CHICAGO, ILLINOIS, ASSIGNOR TO MARGARET ALEXANDER, OF SAME PLACE.

IMPROVEMENT IN COAL-HODS.

Specification forming part of Letters Patent No. **162,454**, dated April 27, 1875; application filed February 16, 1875.

To all whom it may concern:

Be it known that I, URBANA D. ALEXANDER, of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Coal-Hods, of which improvements the following is a full, clear, and exact description, which will enable others skilled in the art to which my invention appertains to make and use the said improvements, reference being had to the accompanying drawing forming a part hereof, and in which—

Figure 1 is a vertical central section of a hod embodying my invention, and showing the construction and arrangement of the several parts before they are finally clamped together; Fig. 2, a like representation of all the parts detached from each other and inverted; Fig. 3, a representation of the manner in which the parts may be firmly set together; and Figs. 4 and 5 represent a modification of the manner of attaching the hoop to the body.

Like letters of reference indicate like parts.

In the drawing, A represents the body of the hod, made of sheet metal, and in any suitable or desirable form. The lower edge of this part is slightly set in, as shown at *d*, Figs. 2 and 4. B is the bottom, consisting of a sheet metal disk, the edge of which is curved or rolled over, as shown at *e*, Fig. 2. C is the hoop or foot, consisting of an annular, flaring piece of sheet metal having the groove *f* sunken therein at or near one end, as is also shown in Fig. 2. In arranging the parts together, the bottom is placed in the body, and rests on the edge *d*, the curved edge of the bottom being in contact with the edge of the body. The grooved end of the hoop is then passed through the lower end of the body, and is allowed to rest on the bottom piece B. The parts thus arranged together may then be set upon a fixed block or die, G, as shown in Fig. 3. Another block or die, H, should then be arranged on the shoulder *i* in the hoop. A sharp blow or pressure on the block H will then drive the parts together, and firmly unite them to each other. The construction of the parts, before their form is altered by being thus operated upon, is clearly shown in Fig. 2, and this construction will admit of their being arranged together in the manner described. During the pressure exerted by the

block or die H the edge *d* will assume the form of a comparatively broad inwardly-turned flange. The rounded or curved edge *e* will firmly clasp the grooved end of the hoop, and this grooved edge will clasp the edges *d* and *e*, thus making a strong and smooth joint, having no raw edges exposed. In this manner the hod can be made with greater facility and much more rapidly than by the usual mode of constructing and uniting the parts. The metal is not liable to be injured by being bent in this manner, and the hod thus made is cheap and durable.

It is sometimes desirable to make the bottom piece of cast-iron, or of heavy sheet metal, incapable of being curved or rolled over in the manner described. I then unite the body and hoop to each other in the manner shown in Figs. 4 and 5, and arrange the bottom piece on the flanges projecting from the other parts. In this case the bottom piece consists of a flat disk, but the construction of the other parts is not varied.

I am aware that the body, bottom, and hoop of a coal-hod have been heretofore united to each other by having their edges seamed together, and I do not here claim such, broadly, but—

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

1. The combination, in connection with a bottom piece, of the body A having the inwardly-turned lower edge *d*, and of the hoop C having therein the inwardly-sunken groove *f*, the said edge being clasped in the said groove, substantially as shown and described, and for the purposes set forth.

2. The combination of the body A having the inwardly-turned lower edge *d*, the bottom piece B having the downwardly-turned or rolled edge *e*, and the hoop C having therein the inwardly-sunken groove *f*, the edges *d* and *e* being clasped in the groove *f*, all substantially as shown and described, and for the purposes set forth.

I testify that I claim the foregoing I have hereunto set my hand and seal this 11th day of February, 1875.

URBANA D. ALEXANDER. [L. S.]

Witnesses:

CHARLES RITCHIE,
ALBERT OLLENDORF.