N. HAWKINS.

COAL-HOD.

No. 175,247. Patented March 28, 1876.

Fig. 1

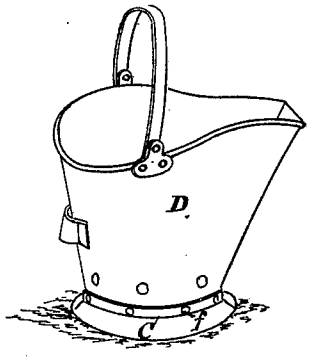


Fig. 2

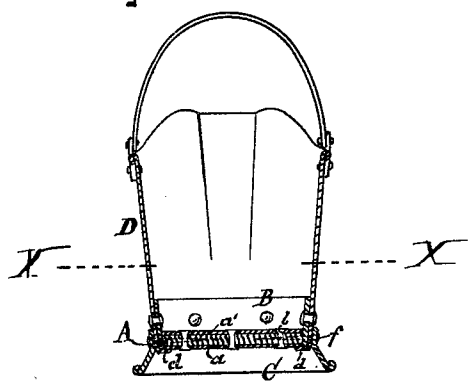


Fig. 3

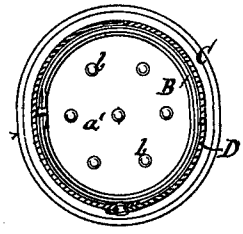
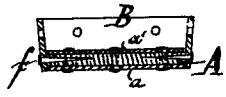


Fig. 4



WITNESSES=

Julius Wilcke

Towner & Webster

INVENTOR=

Nehemiah Hawkins

UNITED STATES PATENT OFFICE.

NEHEMIAH HAWKINS, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN COAL-HODS.

Specification forming part of Letters Patent No. **175,247**, dated March 28, 1876; application filed July 20, 1875.

To all whom it may concern:

Be it known that I, NEHEMIAH HAWKINS, of Chicago, Illinois, have invented certain Improvements in Coal-Hods, of which the following is a specification:

My invention relates to certain improvements in coal-hods or similar vessels, and consists in the construction of a wooden bottom or other similar material, lined on both sides with sheet metal, to which the body of the hod is affixed, in the manner hereafter described.

In drawings forming part of these specifications, Figure 1 is an outside perspective view of my coal-hod. Fig. 2 shows a vertical section of the same. Fig. 3 shows a sectional plan on line X X of Fig. 2. Fig. 4 is a sectional view of the inner shell.

The construction of my coal-hod will be readily understood from the following:

A slat of wood, A, or other suitable material, is cut to the shape of the bottom of the coal-hod, covered on both sides with sheet metal, and then firmly riveted together, as shown in Figs. 2 and 3. In this manner an equivalent of a regular truss structure is formed, the metal plates *a* and *a'* performing the office of the chords, and the wood A, in connection with the rivets *b*, the office of stays and tension-rods, and it will readily be seen that in this manner a very strong and yet light bottom plate is produced. Tightly drawn around this bottom plate is a thin band about two and a half to three inches in width, which is thoroughly united thereto by nails or long rivets *c*, driven from the outside into the wood A, between the metal plates, and thus forming an inner vessel, as shown in Fig. 4. This vessel, placed in the lower part of the hod, serves to confine water and moist substances, with which coal is so often saturated, the accumulation of which is the principal cause of destruction at or near the bottom of ordinary coal-hods. To prevent the water affecting the corners of this vessel I prefer to make the above-mentioned band B and the top metallic plate *a*, of galvanized iron. Firmly affixed to this inner vessel is the main body of the coal-hod D, not differing in shape or size from the ordinary hod, and the same is riveted to the band B, and thereafter bent inside at its lower rim at *d*, the body projecting below the bottom plate *a*. This flange *d* gives now an additional hold to the bottom plate, and thus a strong and uniform structure is formed from the bottom plate, the inner shell, and the main body. The foot-piece C is now fastened to the main body, and the whole structure by means of nails *f* penetrating through the body D, the shell B, into the wood A of the bottom plate.

The advantages gained by this method of construction are: first, it forms a joint answering the same purpose as, yet far superior to, the seam-joint in common use for putting together similar articles; second, it admits the use of iron too thick or brittle to be seamed; third, it adds greatly to the strength and rigidity of the structure by giving it a strong basis.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the body D, having an inwardly-turned flange on its lower edge; the hoop or foot-piece C, arranged externally to the body; the band B, surrounding the bottom piece and extending above it, thereby forming a lining in the lower part of the hod; and the bottom piece A, inclosed above and below by the disks *a* and *a'*, all substantially as and for the purposes specified.

NEHEMIAH HAWKINS. [L. S.]

Witnesses:
P. F. CHASE,
H. G. CHASE.