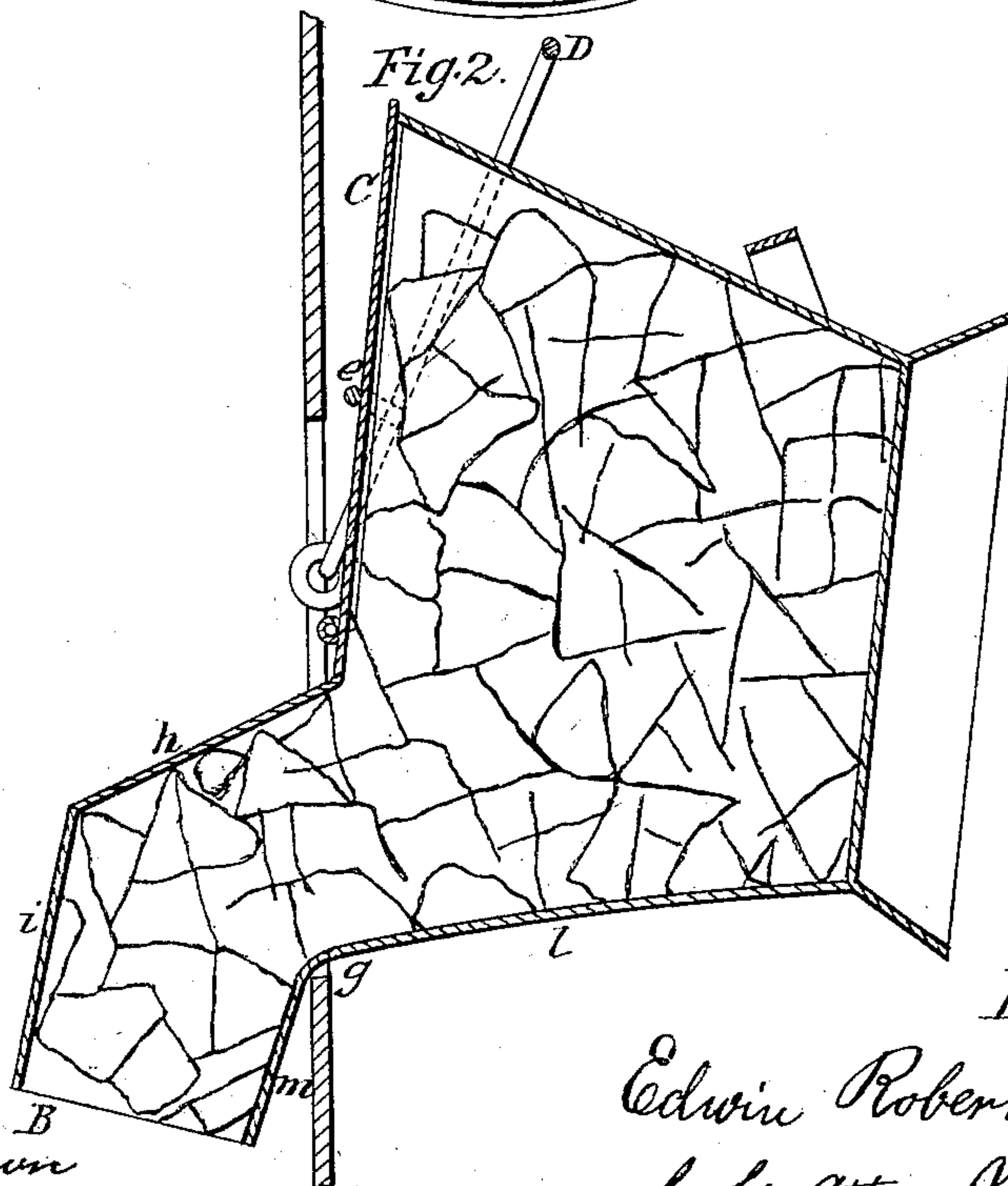
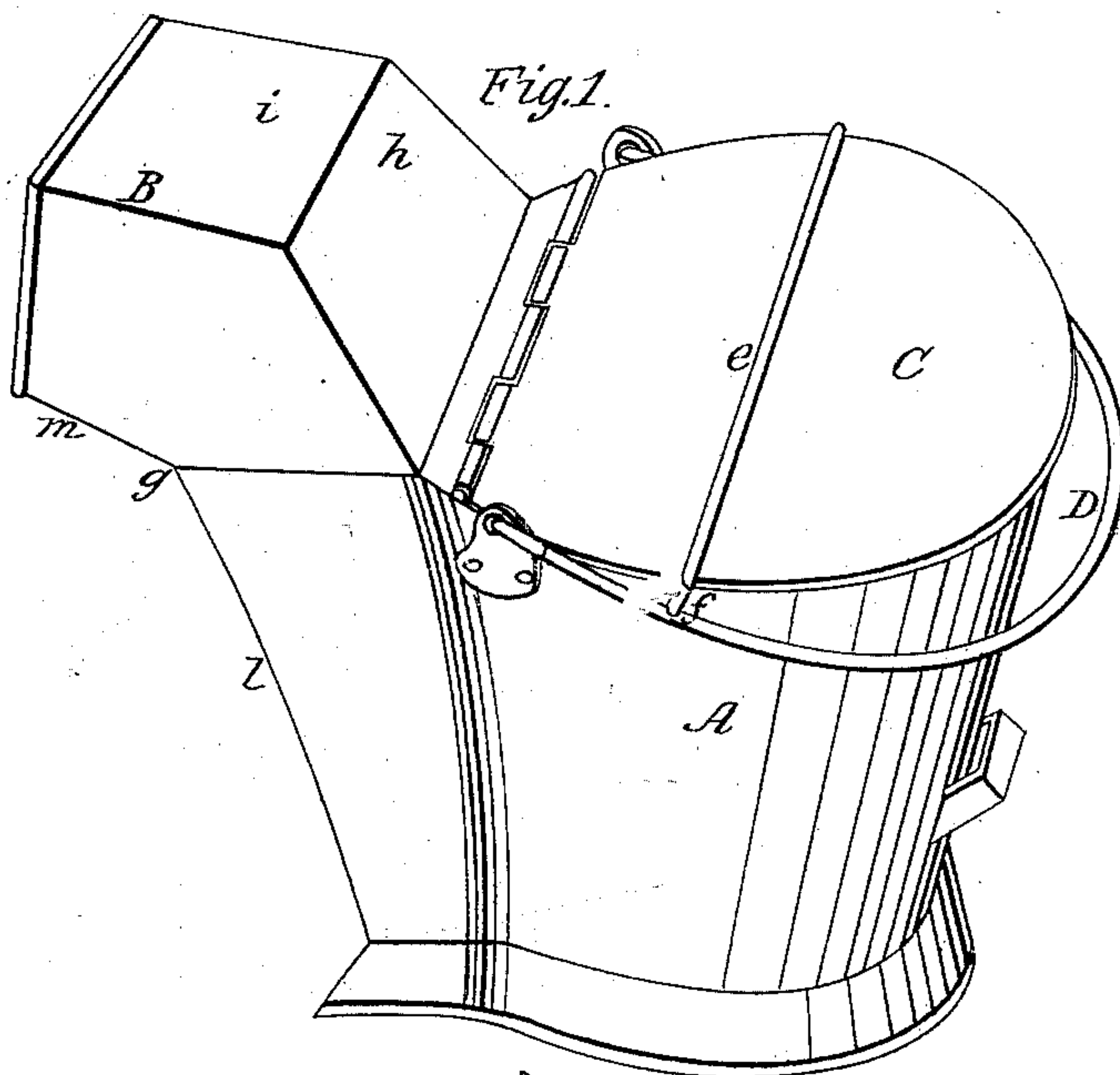


Coal Hod.

Patented July 17, 1866.



Witnesses.

James C Brown
Jay Hyatt

Inventor

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by his attys J. Fraser & Co.

UNITED STATES PATENT OFFICE.

EDWIN R. HALL, OF BUFFALO, NEW YORK.

IMPROVEMENT IN COAL-HODS.

Specification forming part of Letters Patent No. 56,408, dated July 17, 1866.

To all whom it may concern:

Be it known that I, EDWIN ROBT. HALL, of the city of Buffalo, in the county of Erie and State of New York, have invented a new and useful Improvement in the Construction of Coal-Hods; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of a coal-hod constructed after my improved method. Fig. 2 is a view in section, representing the same in position for emptying its contents in a stove.

Like letters of reference designate corresponding parts in both figures.

The object of my improvement is to construct a coal-scuttle that may be readily emptied of its contents without the possibility of spilling any portion thereof; and the invention consists in the peculiar construction of its spout, when used in combination with a coal-hod provided with a cover the lid of which is kept closed while the hod is being emptied by means of a cross-wire or its equivalent attached to the bail, as hereinafter described.

In the drawings, A represents the body of a coal-scuttle of the ordinary construction; B, the covered spout or mouth, of peculiar form; C, the lid or cover, and D the bail provided with a wire or small rod resting upon the lid and having its ends bent downward and soldered or otherwise fastened to the opposite sides of the bail, as shown at *f*, Fig. 1.

The spout B is constructed of the form shown, having a sudden turn or bend on its under side, *m*, so as to form at its junction with the side *l* of the hod an obtuse angle, as clearly shown at *g*. The cover of the spout consists of two parts, *h i*, the former being in a position nearly parallel to the side *l*, and joined to the cover as near this side as practicable, and still leave sufficient space for the passage of the coal. The portion *i* lies nearly parallel with the under side of the spout, so as to form a rectangular opening or mouth, and is joined to *h* at an obtuse angle, as represented. The object of this construction of the spout is to enable the hod to be turned up in the position shown in Fig. 2 while its contents are being discharged, the angle *g* resting on the

bottom of the opening in the stove and preventing the accidental withdrawal of the spout while the hod is in this upturned position.

The ordinary construction of the under side of the spout being but a continuation of the side *l*, with a greater or less inclination, and the hod being uncovered, prevents the latter from being turned up in this manner, so that the operation of emptying the scuttle has to be done at first gradually and with great care to prevent spilling the coal, (which is almost impossible when the vessel is full,) and after it is partially emptied, in order to discharge the remainder, which settles in the lower corner at the bottom, a succession of throws or shaking of the scuttle has to be resorted to, which not only requires more or less time, but occasions a most disagreeable noise, and the partial withdrawal of the spout, necessary in order to shake or throw out the fine dust and coal, frequently causes the latter to be scattered upon the carpet.

Not only are these difficulties obviated by the use of my improvement, but the cover C, being kept closed by the cross-wire *e* attached to the bail, which is held by one hand as the hod is being emptied, confines the dust and prevents its escape into the apartment, which takes place so copiously when no such cover is employed and where the shaking process has to be resorted to which so greatly increases the rising of the same.

Another advantage of my improvement is that the coal-scuttle can be emptied with rapidity and with comparatively little noise, as the position of the vessel is such that the coal is discharged more in a mass, while the cover, in a great measure, confines the noise which is produced by the concussions of the coal within.

The portion *h* of the spout, as constructed, enables the hod to be used in a smaller door than could be done if it formed a junction with the cover nearer the center. It also allows a larger lid to be used to the scuttle, which is desirable for convenience in filling the same.

It is evident that other devices instead of the cross-wire *e* may be employed for the same purpose, and substantially with like effect—such, for instance, as the use of short arms or lugs attached to the bail, which would press upon

the edges of the lid, or the bail itself may be formed with a jog or bend near the ears, which would press upon the cover in a similar manner. These and like modifications I claim as the equivalent of the device represented.

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

The spout B, constructed substantially as

described, in combination with the cover C and bail D, provided with cross-wire *e*, or its equivalent, arranged and operating as set forth.

EDWIN ROBT. HALL.

Witnesses:

JAY HYATT,

LYMAN P. PERKINS.