

N. SMALLEY.

SCUTTLES OR HATCHWAYS FOR STABLES, &c.

No. 194,791.

Patented Sept. 4, 1877.

FIG. 3.

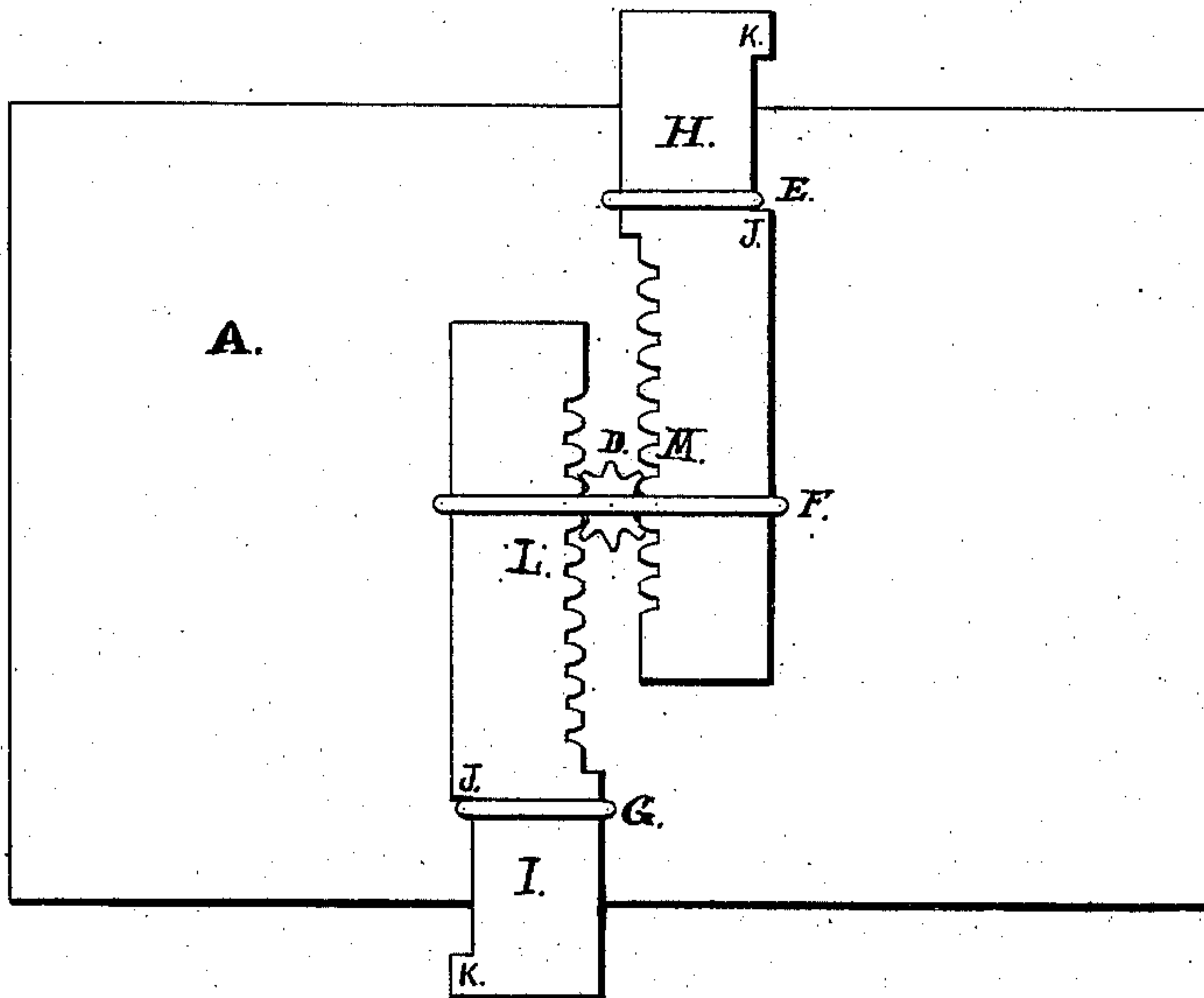
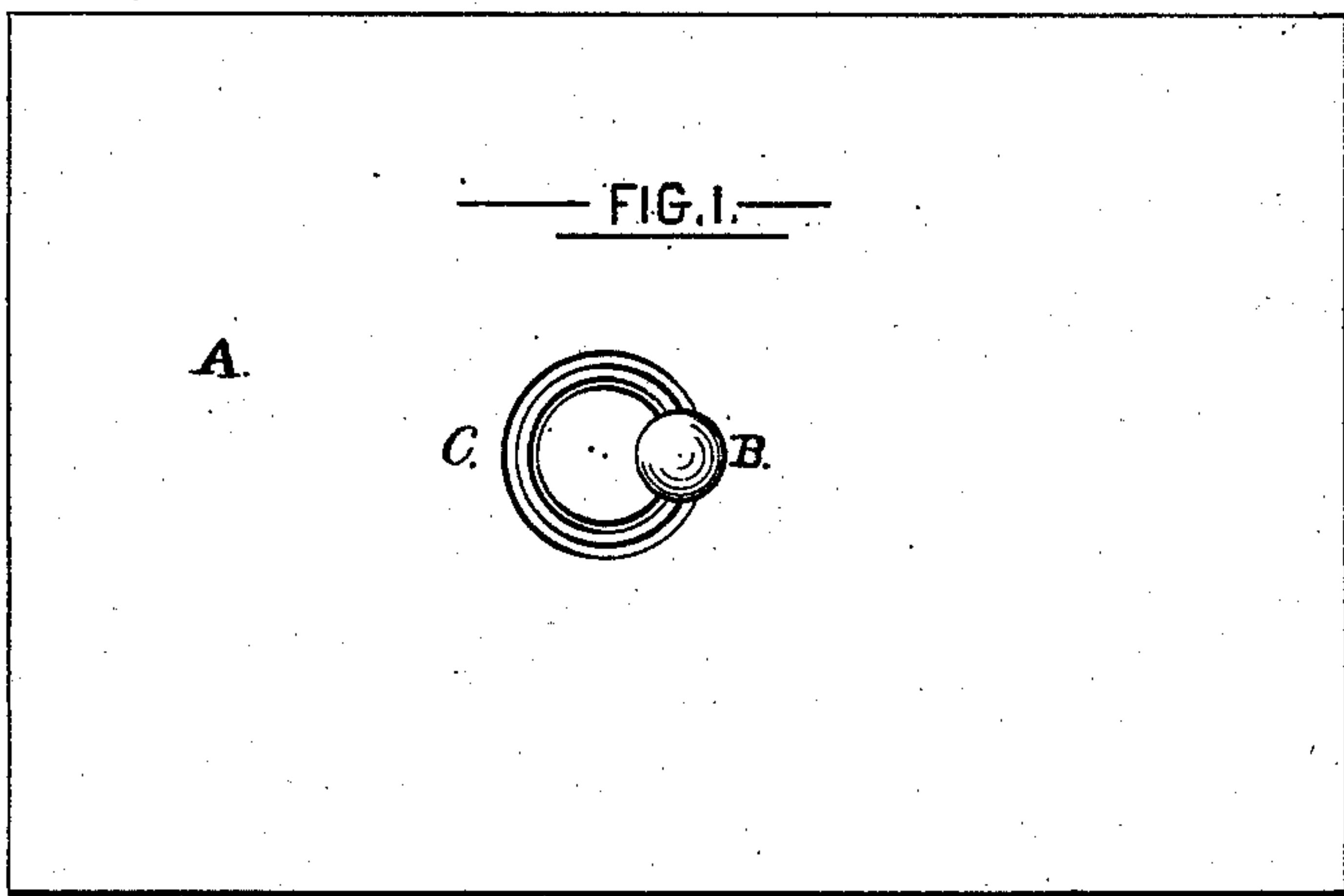


FIG. 2.



FIG. 1.



WITNESSES.

INVENTOR.

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## IMPROVEMENT IN SCUTTLES OR HATCHWAYS FOR STABLES.

Specification forming part of Letters Patent No. 194,791, dated September 4, 1877; application filed December 2, 1876.

*To all whom it may concern:*

Be it known that I, NATHAN SMALLEY, of Providence, in the State of Rhode Island, have made certain new and useful Improvements in Scuttles; and I do hereby declare that the following specification, taken in connection with the drawing, making a part of the same, is a full, clear, and exact description thereof.

Figure 1 is a top view of the scuttle. Fig. 2 is a side view. Fig. 3 is a view of the bottom.

My invention is more especially designed to secure a barn or stable scuttle in such a manner that it cannot be accidentally removed by the feet of the horses or other animals passing over it; and consists in the improvements hereinafter described.

The scuttle, in order to be convenient for the purposes for which it is used, is usually located in the rear of the stall, or in such close proximity thereto that the horse cannot be removed without passing over it; and it not unfrequently happens that the horse, stepping upon one corner, or catching his calks in the crack around it, displaces it, and steps through the floor, the result of which it is not necessary to refer to.

In my invention, A is the scuttle, which bears at each end upon the sleepers in the usual way. B is a pin extending through the scuttle near the center, and having at its upper end a ring, C, and at its lower end a pinion, D. Upon the under side of the scuttle,

and sliding in suitable guides E F G, are two bars or bolts, H I, the extent of their movement in either direction being defined by the shoulders J K.

The bolts are provided with racks L M upon the inside, into which works the pinion D.

Having now described the several parts of my invention, I will proceed to describe its operation: The scuttle being put in place, I take hold of the ring C and turn it to the right, which rotates the pinion D and throws the bars H I outward, as shown in Fig. 3. The ends of the bars H I, so extended, pass under the floor upon either side, and hold the scuttle firmly in place.

When it is desired to remove the scuttle the pinion D is rotated in the opposite direction in like manner, which withdraws the bars H I and allows it to come up.

The top of the scuttle may be cut out, so as to bring the upper end of the pin B and the ring C upon a level with the floor.

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

In combination with a scuttle, A, the rotatable ring-bolt B, having pinion D, and slide-bolts H I, having ratchets L M and shoulders J K, all operating substantially as and for the purpose specified.

NATHAN SMALLEY.

Witnesses:

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