(No Model.)

E. FLEMING.

COMBINED SHOVEL AND SIEVE.

No. 426,719. Patented Apr. 29, 1890.

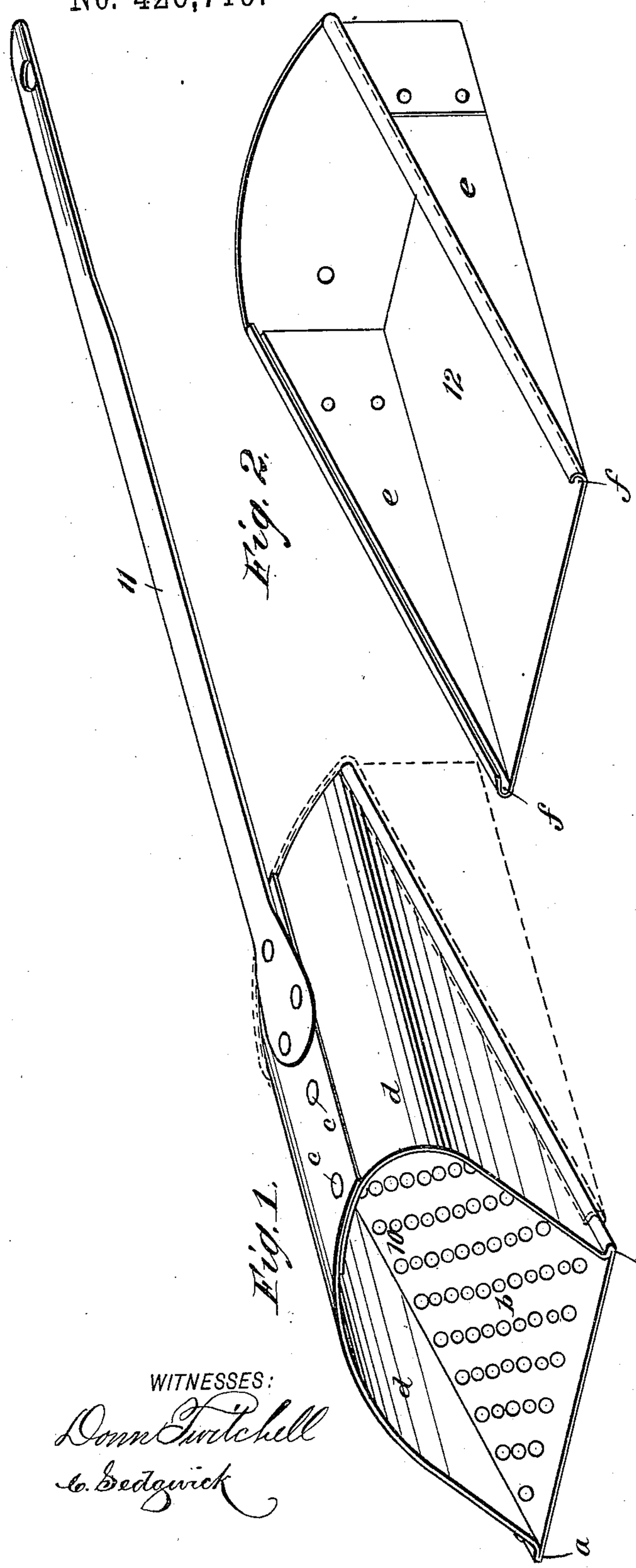

Fig. 1.

Fig. 2.

Fig. 3.

Fig. 4.

WITNESSES:

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COMBINED SHOVEL AND SIEVE.

SPECIFICATION forming part of Letters Patent No. 426,719, dated April 29, 1890.

Application filed December 30, 1889. Serial No. 335,314. (No model.)

To all whom it may concern:

Be it known that I, EDWARD FLEMING, of New York city, in the county and State of New York, have invented a new and Improved Combined Shovel and Sieve, of which the following is a full, clear, and exact description.

With the ordinary form of stove it is extremely desirable that some provision be made for the separation of the ashes and cinders while yet in the ash-pit and immediately before their removal from the stove, in order that the cinders may be returned to the magazine or to the body of the fire, to be eventually consumed and the ashes proper deposited in any convenient receptacle.

The object of my invention is to provide a shovel that may be used to sift its contents, and from which the ash-receptacle may be readily detached.

To the ends above named the invention consists in the novel construction and combinations of parts, as hereinafter particularly described, and defined in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the shovel, the position of the ash-receptacle being indicated by dotted lines. Fig. 2 is a perspective view of the ash-receptacle. Fig. 3 is a central longitudinal sectional view of the combined implement, and Fig. 4 is a cross-sectional view thereof.

In the drawings above referred to, 10 represents a shovel, that is preferably formed by taking a single sheet of metal, cutting it into proper form, bending it so that flanges *a a* will be formed, and carrying the wings *d* of the blank upward, and overlapping the edges of the wings and uniting the said edges by rivets *c*. The bottom is an apertured or open-work one for the purpose of forming a sieve. A handle 11 is then riveted to place, as represented. The structure formed as above described constitutes a shovel, of which the sieve-bottom *b* forms an angle with the handle 11. The ash-receptacle 12 is by preference formed as represented in Fig. 2 by taking a blank, cutting it to proper shape, and bending and riveting the several flaps to place, as represented. The edges of the sides *e* of the receptacle 12 are bent over to form grooves or ways *f*, adapted to receive the flanges *a*, the arrangement being such that the ash-receptacle may be applied to the sieve, as indicated by dotted lines in Fig. 1, and as shown in full lines in Figs. 3 and 4.

If desired, a catch might be provided for holding the receptacle to the shovel. For the sake of convenience I prefer to provide the receptacle with a handle 13.

In operation the ash-receptacle is applied to the perforated shovel, as indicated by dotted lines in Fig. 1, and then the ashes and cinders in the ash-pit of the stove are gathered and the implement is shaken while in the stove, whereby the ashes will pass downward into the receptacle 12, while the cinders will be retained above the sieve-body. Then if the receptacle be removed from the sieve the cinders may be dumped into the stove or grate.

Instead of forming the shovel-bottom from apertured sheet metal, it will of course be understood that wire-netting might be employed for the purpose.

The combined implement constructed as described may be used as a shovel, and the ash-receptacle may be readily detached for dumping the ashes. The perforated shovel will also be found serviceable, either alone or with the ash-receptacle, in shoveling coal.

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

1. The combination, with a shovel having an open-work or perforated bottom, of a receptacle for dust and ashes, the said receptacle being detachably held to the shovel, substantially as described.

2. The herein-described combined implement, comprising a shovel having a perforated or open-work bottom, and an ash-receptacle detachably held to said shovel, both the shovel and ash-receptacle tapering toward the front, enabling them when connected to be used as a shovel, substantially as described.

3. The herein-described combined implement, comprising a shovel having a perfo-

rated or open-work bottom and upwardly-extending sides or flanges, and a receptacle for dust and ashes, detachably held to the said shovel, substantially as described.

4. The herein-described combined implement, comprising a shovel having a suitable handle and a perforated or open-work bottom inclined with respect to the handle, and a receptacle for dust and ashes, having an open top and inclined sides adapted to the incline of the shovel-bottom, substantially as described.

5. The combination, with a sieve provided with a handle and with flanges *a*, of an ash-receptacle formed with grooves *f*, adapted to receive the flanges, substantially as described.

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Witnesses:
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