

No. 751,197.

PATENTED FEB. 2, 1904.

G. W. OSGOOD.
ASH SIFTER FOR FURNACES OR THE LIKE.
APPLICATION FILED NOV. 5, 1903.

NO MODEL.

Fig. 1.

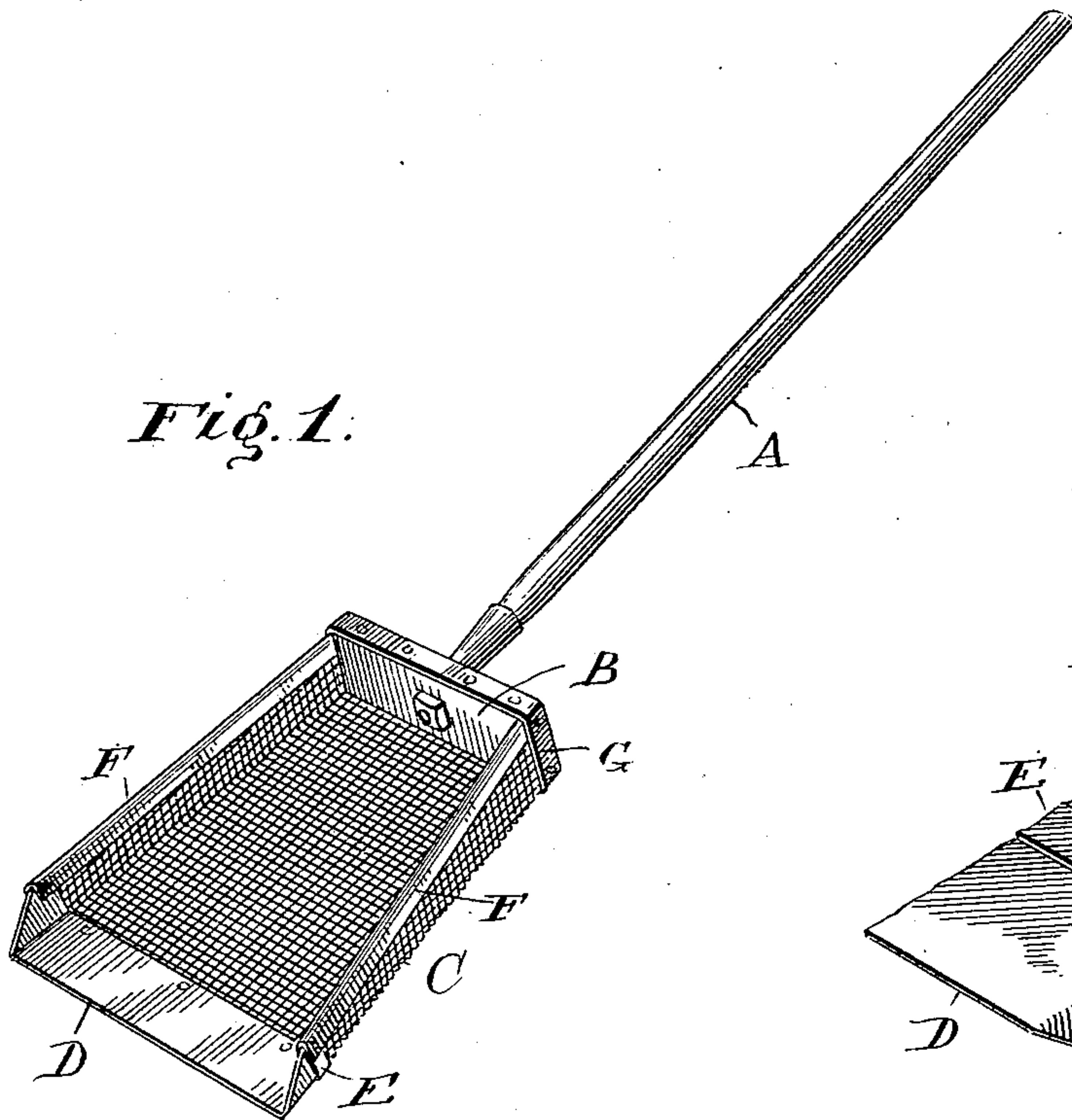


Fig. 3.

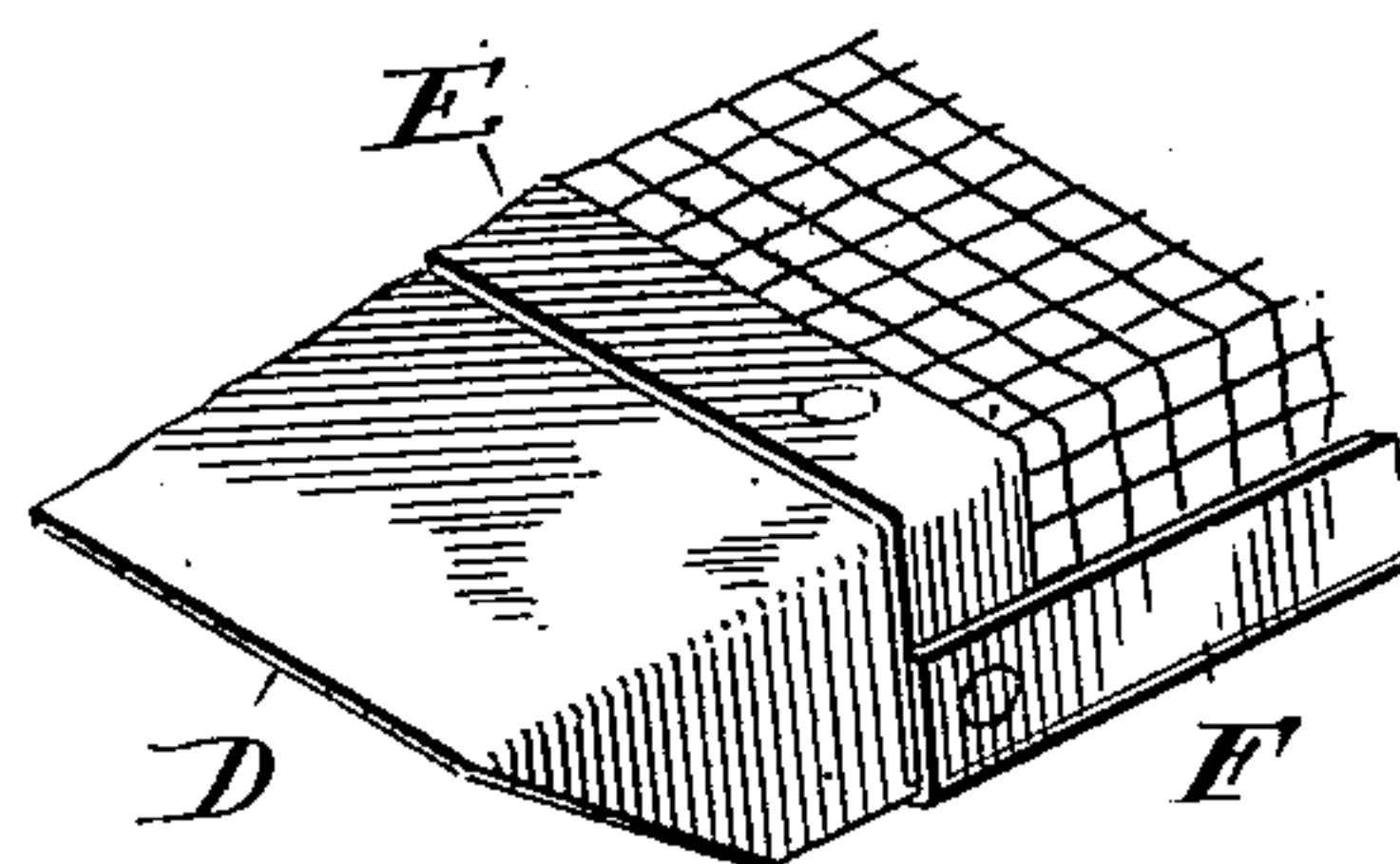
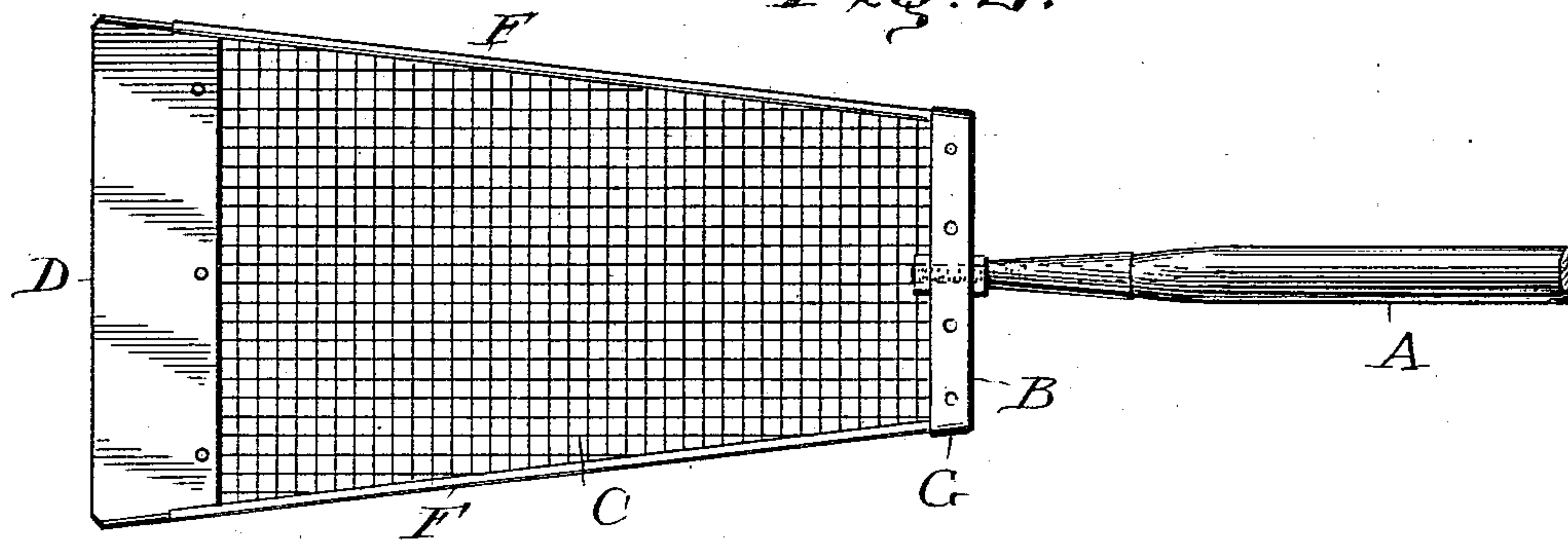


Fig. 2.



Witnesses:

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Inventor:

George W. Osgood

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UNITED STATES PATENT OFFICE.

GEORGE W. OSGOOD, OF ST. CHARLES, ILLINOIS.

ASH-SIFTER FOR FURNACES OR THE LIKE.

SPECIFICATION forming part of Letters Patent No. 751,197, dated February 2, 1904.

Application filed November 5, 1903. Serial No. 179,906. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. OSGOOD, a citizen of the United States of America, residing at St. Charles, in the county of Kane and State of Illinois, have invented certain new and useful Improvements in Ash-Sifters for Furnaces or the Like, of which the following is a specification.

My invention relates to certain new and useful improvements in ash-sifters for furnaces and the like; and its object is to provide a device of this class which shall have certain advantages which will appear more fully and at large in the course of this specification.

To this end my invention consists in certain novel features of construction, which are fully illustrated in the accompanying drawings and described herein.

In the aforesaid drawings, Figure 1 is a perspective view of my improved ash-sifter. Fig. 2 is a plan view on an enlarged scale, and Fig. 3 is a fragmental perspective view of one corner of the sifter inverted.

In the aforesaid drawings, A is the handle of my improved sifter. Secured to this handle is a rear board B, which forms the rear of the sifter. To this rear board is secured a scoop C, composed of reticulated material. I prefer to construct this sifter of rather heavy wire-mesh stuff of such gage as to be suitable for sifting ashes; but it is obvious that any other reticulated stuff could be used. It is to be particularly noted that the flat lower surface of this scoop is considerably broader at its forward end than at the rear end and that the sides of the scoop are made of the same reticulated fabric as is the base. In this way a structure is provided which is comparatively broad at its front end and narrows toward the rear, so as to have tapering sides. A plate D, bent up at its ends, is secured to the upper side of the fabric of the scoop to give a suitable shoveling edge, and the joint between this plate and the reticulated fabric is covered by a strap E, riveted in place. The upper edges of the scoop C are protected and finished by a metal bead F, and the rear board

B of the scoop is bound by a strap G, which passes outside the ends of the beads F.

In the use of this device it is inserted in the door of the ash-pit of an ordinary furnace after the manner of any scoop-shovel and a scoopful of ashes is taken up. A slight shaking of the sifter without removing it from the furnace at all will sift out the ashes and leave the good cinders and coal in the scoop, and this can be directly shoveled back into the door of the fire-pot.

It will be seen that a sifter of this type made in the form of an ordinary shovel has two very important advantages, the first lying in the fact that the sifting can be done in the ash-pit of the furnace, and that consequently all the dust and dirt caused thereby will be drawn up through the furnace by the draft and none will come out into the house. A second and very important advantage lies in the fact that after the sifting is completed the good coal and cinders can be thrown directly from the sifter into the door of the fire-box. In other words, this improved sifter operates as a shovel which can be placed in the ash-pit and will select out all the good coal, which can then be shoveled directly into the furnace.

The operation of this sifter is made peculiarly effective by reason of the fact that it tapers sharply toward the rear, and consequently as the ashes are shoveled onto the scoop they strike against an inclined surface, which is the best possible surface for sifting purposes, and a large part of them pass through without any necessity of shaking the device.

I realize that considerable variation is possible in the details of this construction without departing from the spirit of the invention, and I therefore do not intend to limit myself to the specific form herein shown and described.

I claim as new and desire to secure by Letters Patent—

In a device of the class described, the combination with a suitable handle of a rear board secured thereto, a scoop of reticulated fabric of suitable mesh for sifting ashes, secured at its rear edge to said rear board, said scoop

tapering sharply from the front toward said rear board, a plate secured to the upper surface of said scoop at its front edge, a strap below said plate and outside the joint between
5 said plate and said scoop, a bead binding each edge of said scoop, and a suitable strap surrounding said rear board and inclosing the ends of said board.

In witness whereof I have signed the above application for Letters Patent, at St. Charles, 10 in the county of Kane and State of Illinois, this 31st day of October, A. D. 1903.

GEORGE W. OSGOOD.

Witnesses:

JOHN F. ELLIOTT,
U. S. ELLIOTT.