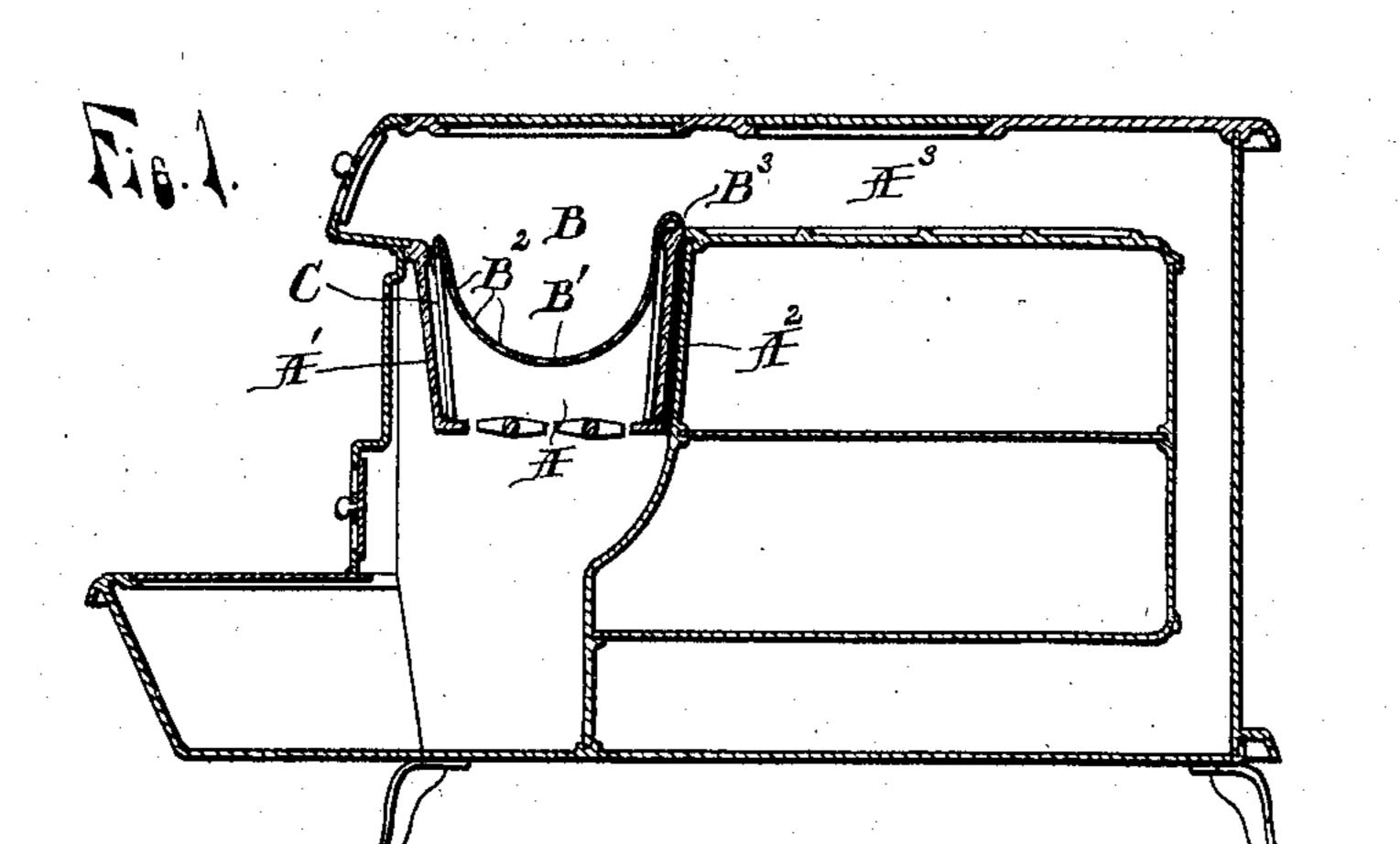
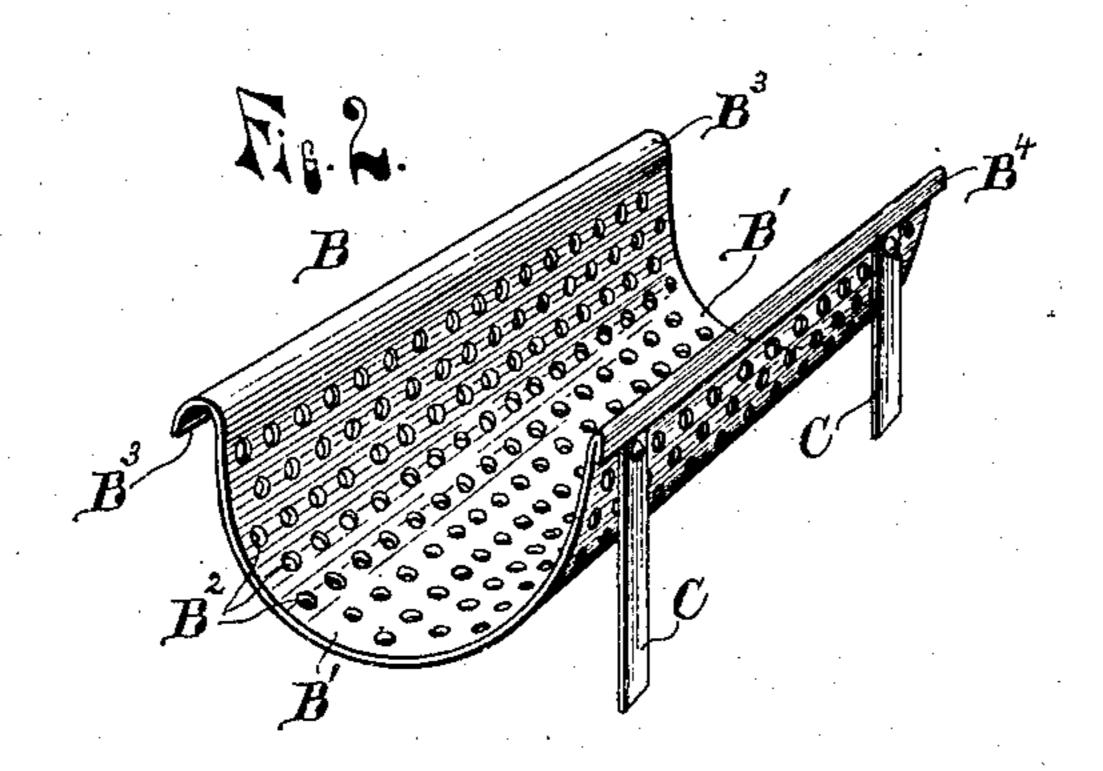
No. 790,166.

PATENTED MAY 16, 1905.

M. C. WOOD-ALLEN.

CHARCOAL BURNING ATTACHMENT FOR STOVES. APPLICATION FILED APR. 15, 1904.





WITNESSES.

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MARIO C. WOOD-ALLEN, OF ANN ARBOR, MICHIGAN, ASSIGNOR TO EDWARD R. VIGER, OF DETROIT, MICHIGAN.

CHARCOAL-BURNING ATTACHMENT FOR STOVES.

SPECIFICATION forming part of Letters Patent No. 790,166, dated May 16, 1905.

Application filed April 15, 1904. Serial No. 203,278.

To all whom it may concern:

Be it known that I, Mario C. Wood-Allen, a citizen of the United States of America, residing at Ann Arbor, in the county of Washtenaw and State of Michigan, have invented certain new and useful Improvements in Charcoal-Burning Attachments for Stoves, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to improvements in charcoal-burning attachments for stoves; and its object is to provide a device for the purpose which may be readily inserted within and will fit any size of fire-box of an ordinary cooking stove or range and which may be manufactured very cheaply by any tinsmith or sheet-metal worker without requiring any special tools or machine-work.

It is also an object of the invention to provide suitable means for supporting the device within the fire-box and to provide the particular shape, construction, and arrangement of parts, all as hereinafter more fully described, and shown in the accompanying drawings, in which—

Figure 1 is a vertical section of a cooking stove or range, showing the device in position within the fire-box; and Fig. 2, a perspective view of the device detached.

As shown in the drawings, A is the fire-box of the stove, A' A² the front and back walls, respectively, of said box, and A³ the bottom wall of a flue leading rearwardly from the upper edge of the rear wall A², all as ordinarily constructed and arranged in a cooking stove

The charcoal-burning attachment or grate B consists of a sheet of metal bent to form a trough-like body B', substantially semicircular in cross-section and provided with perforations B² of a suitable size and number to allow the air to pass through and cause complete combustion of the charcoal or other fuel placed within the trough-like body. At one edge the sheet metal is rolled over to form a hook B³ to engage and rest upon the wall A³, where it joins the rear wall of the fire-box and

supports one edge of the body, and at its opposite edge B⁴ the metal is folded upon itself to strengthen and stiffen the same. The for- 50. ward edge of the body is supported by two sheet-metal legs C, riveted to said edge and adapted to extend downward and rest upon the inwardly-projecting ledge or other support at the bottom of the front wall. A hook 55 similar to the hook B³ may also be formed on the forward side of the body to engage an angle or projecting shoulder on the front of the stove; but as all stoves of this class do not have such a projection it is preferable to pro- 60 vide the legs for supporting the body at its forward side. As it is not necessary that the body fit closely within the fire-box, the bodies are preferably made of a length to fit the shorter boxes and may then be used in boxes 65 of any length; but should the body be too long it may very easily be cut off with an ordinary pair of tin-shears. The body or grate is also made to accommodate itself to any width of box by simply bending the same, and 7° as the natural tendency of the sheet will be to straighten out this spring will hold the body firmly in place when it is forced downward into the fire-box.

The body being semicircular in cross-sec- 75 tion, as the fuel burns it will fall toward the center, and thus all burn up, and the fuel is supported by the grate near the top of the fire-box, so that the fire is brought near the top of the stove, which is necessary in burning charcoal or other light fuel to make a quick hot fire.

Having thus fully described my invention, what I claim is—

1. A charcoal - burning attachment for 85 stoves consisting of a perforated sheet plate of substantially semicircular shape in cross-section, the edges of said plate being turned over throughout their length, in combination with a supporting-wall received in one of said 90 turned-over edges, and supporting-legs having their upper ends abutting the other of said turned-over edges and secured to the plate, substantially as described.

2. The combination with the fire-box of a stove, and the side walls therein, of an attachment consisting of a perforated sheet-metal plate of substantially semicircular shape in cross-section, and having overturned edges throughout its length, one of which edges receives the upper edge of one of the side walls, and supporting-legs having their upper ends

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abutting the other of said turned-over edges and secured to the sheet-metal plate.

In testimony whereof I affix my signature in presence of two witnesses.

MARIO C. WOOD-ALLEN.

Witnesses:

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MICHAEL J. FRIEZ, GEO. H. RINSEY.