

C. S. BLACKBURN.
 COMBINED FENDER AND BLOWER.
 APPLICATION FILED MAY 12, 1911.

1,049,653.

Patented Jan. 7, 1913.

2 SHEETS—SHEET 1.

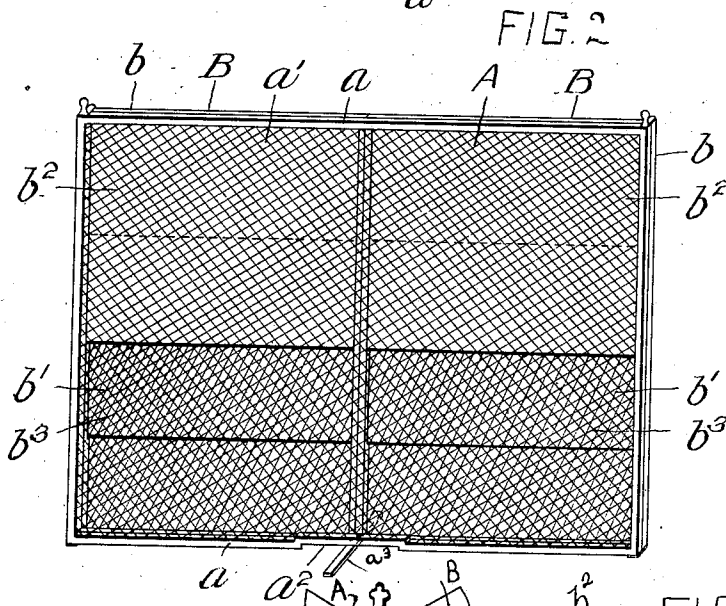
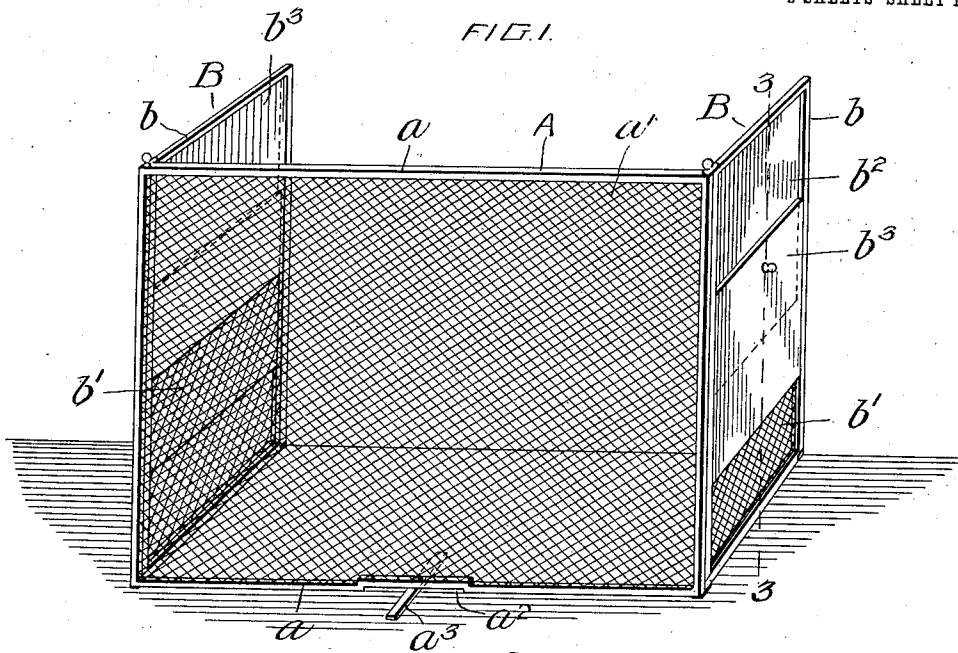


FIG. 3.

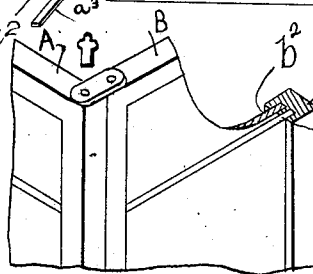
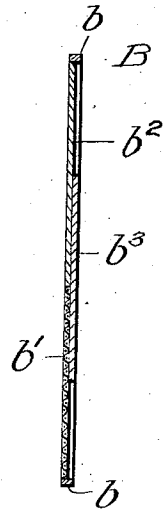


FIG. 7.

WITNESSES:
H. F. Royce.
R. E. Barry.

INVENTOR
Charles S. Blackburn
 By *Whitaker, Trevelock*
 Attorneys

C. S. BLACKBURN.
 COMBINED FENDER AND BLOWER.
 APPLICATION FILED MAY 12, 1911.

1,049,653.

Patented Jan. 7, 1913.

2 SHEETS-SHEET 2.

FIG. 4.

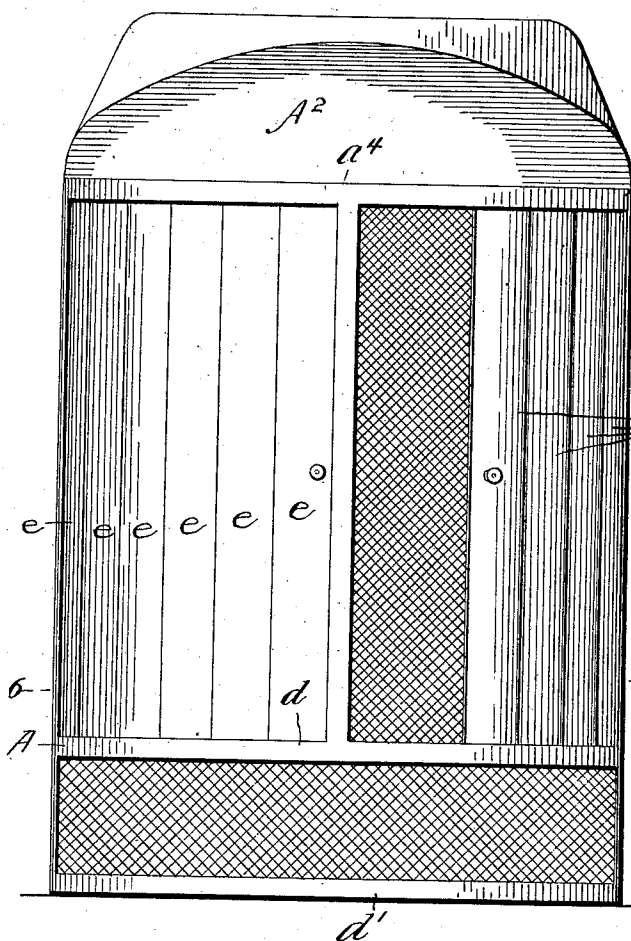


FIG. 5.

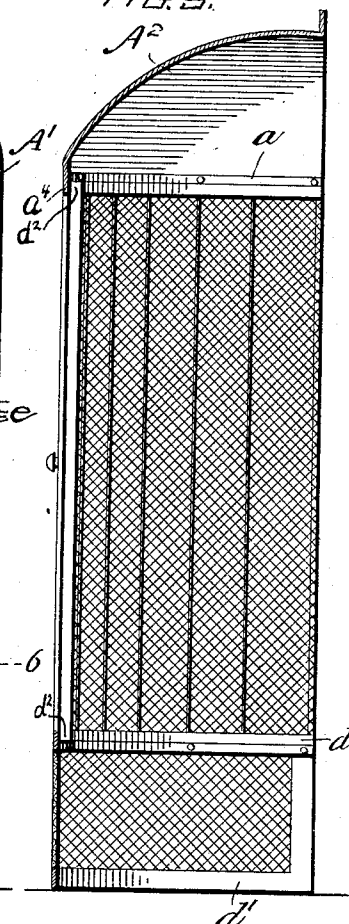


FIG. 6.

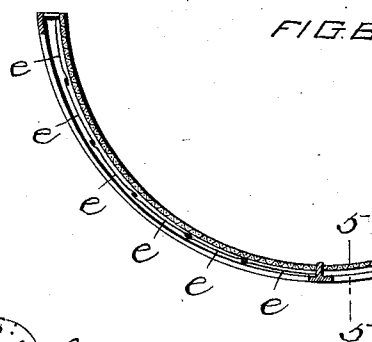
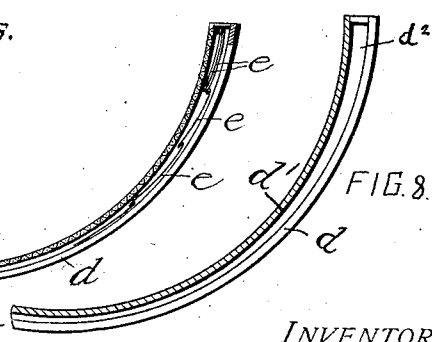


FIG. 8.



WITNESSES
H. F. Royce
R. E. Barry

INVENTOR
 Charles S. Blackburn

BY *Whitaker & Trench*

Attorneys

UNITED STATES PATENT OFFICE.

CHARLES S. BLACKBURN, OF SENECA, SOUTH CAROLINA.

COMBINED FENDER AND BLOWER.

1,049,653.

Specification of Letters Patent.

Patented Jan. 7, 1913.

Application filed May 12, 1911. Serial No. 626,873.

To all whom it may concern:

Be it known that I, CHARLES S. BLACKBURN, citizen of the United States, residing at Seneca, in the county of Oconee and State of South Carolina, have invented certain new and useful Improvements in Combined Fenders and Blowers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My present invention is a combined fender and blower for fire places, grates and the like heating means.

The object of my invention is to produce a device that will perform the functions of a blower and also those of a fender.

In the accompanying drawings, I have illustrated the best forms in which I have contemplated embodying my invention and my said invention is disclosed in the following description and claims.

In the said drawings, Figure 1 is a perspective view of one form of my invention when used as a fire place fender. Fig. 2 is a like view of the device when used as a blower. Fig. 3 is a transverse sectional view on the line 3—3, Fig. 1. Fig. 4 is a modified form of the device adapted for use as a fender and blower for a grate. Fig. 5 is a longitudinal vertical section on line 5—5, Fig. 6. Fig. 6 is a transverse vertical section on line 6—6, Fig. 4. Fig. 7 is a partial view illustrating details of construction. Fig. 8 is a sectional view of Fig. 5 illustrating the grooves in which the plates slide.

In the form designed for use with fire places shown in Fig. 1, my improved device is composed of three parts, the front A, and the wings B, B hinged thereto. The front consists of a light metal frame a to which is secured a wire netting or fabric a' , filling or covering the entire space within the frame. The wings are each composed of a frame b , the lower half of which is filled or covered with wire netting or fabric b' of the same or similar character as that applied to the front. The upper half of the frame is filled or covered with sheet metal b^2 . Outside of these filling panels the vertical frame bars are grooved to receive a vertically sliding panel b^3 .

The lower side bar of the front frame is recessed at a^2 to receive a short bar a^3 pivoted therein so as to be swung into aline-

ment with the frame bar or at an angle thereto. The wings B are half the length of the front, so that they can be swung inward against the inner side of the front and lie flatly against it, entirely covering the inner side of the same.

When it is desired to use the device as a fender, the wings B, B are turned at an angle to the front A, as shown in Fig. 1, and the free sides or edges of the wings are placed against the jambs of the fire place. When the device is to be used as a blower the wings B, B are folded against the front as shown in Fig. 2. The device thus folded is then placed across the front of the fire place, the bar a^3 being turned at a right or other angle to the frame to form a foot to maintain the device in a perpendicular position. By folding the wings against the front, the upper half of the same is closed by the sheet metal panels b^2 of the wings, leaving the wire netting or fabric of the lower half free to admit air to the fire place. The extent of this inlet space may be reduced to any extent desired by depressing the sliding panels b^3 to such point as will give the result desired. If the sliding panels b^3 , b^3 are forced downward to the bottoms of their frames the draft will be practically cut off and the fire can then be left for an indefinite period in a smoldering or slow burning condition. When it is desired to store the fender or transport the same, the wings are folded as described and the bar or foot a^3 turned into alinement with the frame, in which condition it will occupy but little space.

In Figs. 4 to 7 inclusive, I have shown a modified form of my combined fender and blower, designed for use with grates, more especially with such as project more or less from the chimney breast. This modification of my device can be constructed in many different ways. The form shown comprises a semi-cylinder of wire gauze or netting supported by a suitable frame, a series of overlapping plates being employed to partly cover the wire gauze or netting when it is desired to have it act as a blower.

In Fig. 4 of the drawing A' is the supporting frame surmounted by the hood A². e, e, e, e are the overlapping sliding plates for casing the front of the device when it is to be used as a blower. These plates have their ends engaging grooves d^2 in the top bar a^4 and bar d . The sliding plates are

moved outward from the center to open the
 device to act as a fender and the grooves are
 increased in width from the center outward
 to accommodate the plates as they are moved
 5 outward, as shown in Fig. 6. The space be-
 tween bars *d* and *d'* may also be provided
 with covering and closing means, if so de-
 sired. Instead of having the device in the
 form shown, it may be made to curve in-
 10 wardly from the bottom toward the top and
 the hood reduced in size to conform to such
 a change. The plates *e* except the end ones
 of each series are formed with reversely
 turned edges as shown in Fig. 6 so that the
 15 moving of the inner plate will bring the
 others of the series to their proper places,
 when it is desired to close the fender to have
 it act as a blower.

What I claim and desire to secure by Let-
 20 ters Patent is:—

1. A fender comprising a portable struc-
 ture having the greater portion of its extent
 formed of wire netting, said structure
 adapted to engage a chimney breast on each
 25 side of a fire-place, said chimney breast en-
 gaging portions being provided with im-
 perforate plates capable of being moved to-
 ward the opposite side of the structure to
 cover the whole or a part of the netting of
 30 the fender to form a blower.

2. In a fender, the combination with a
 main frame having the space within the
 same closed by wire netting, of wings or
 side frames hinged thereto and adapted to

fold upon said main frame and cover the 35
 same, said side frames being provided with
 imperforate material to close the main por-
 tion of the netting of the main frame.

3. In a fender of the class described, the
 combination with a main frame closed or 40
 covered by a wire netting, of hinged wings
 adapted to fold closely upon the main frame
 said wings having space within the same
 closed by wire netting and imperforate
 plates for variably closing such netted space. 45

4. A fender having a main frame pro-
 vided with wire netting closing space with-
 in the same and a wing pivoted to each end
 of said main frame and adapted to be fold-
 ed upon one side of said main frame, said 50
 wings being provided with wire netting and
 imperforate plates movable to variably
 cover the wire netting of said wings.

5. In a fender, the combination with a
 main frame having the space within the same 55
 closed by wire netting, of side frames hinged
 thereto and adapted to fold upon said main
 frame and cover the whole of the same, said
 side frames being provided with imperfo-
 rate plates movable to different positions to 60
 close the wire netting of the fender to vary-
 ing extents to form a blower.

In testimony whereof I affix my signa-
 ture, in the presence of two witnesses.

CHARLES S. BLACKBURN.

Witnesses:

B. S. H. HARRIS,
 WALTER A. ADAMS.