

(No Model.)

P. McCAULEY.  
FIRE FRONT.

No. 312,143.

Patented Feb. 10, 1885.

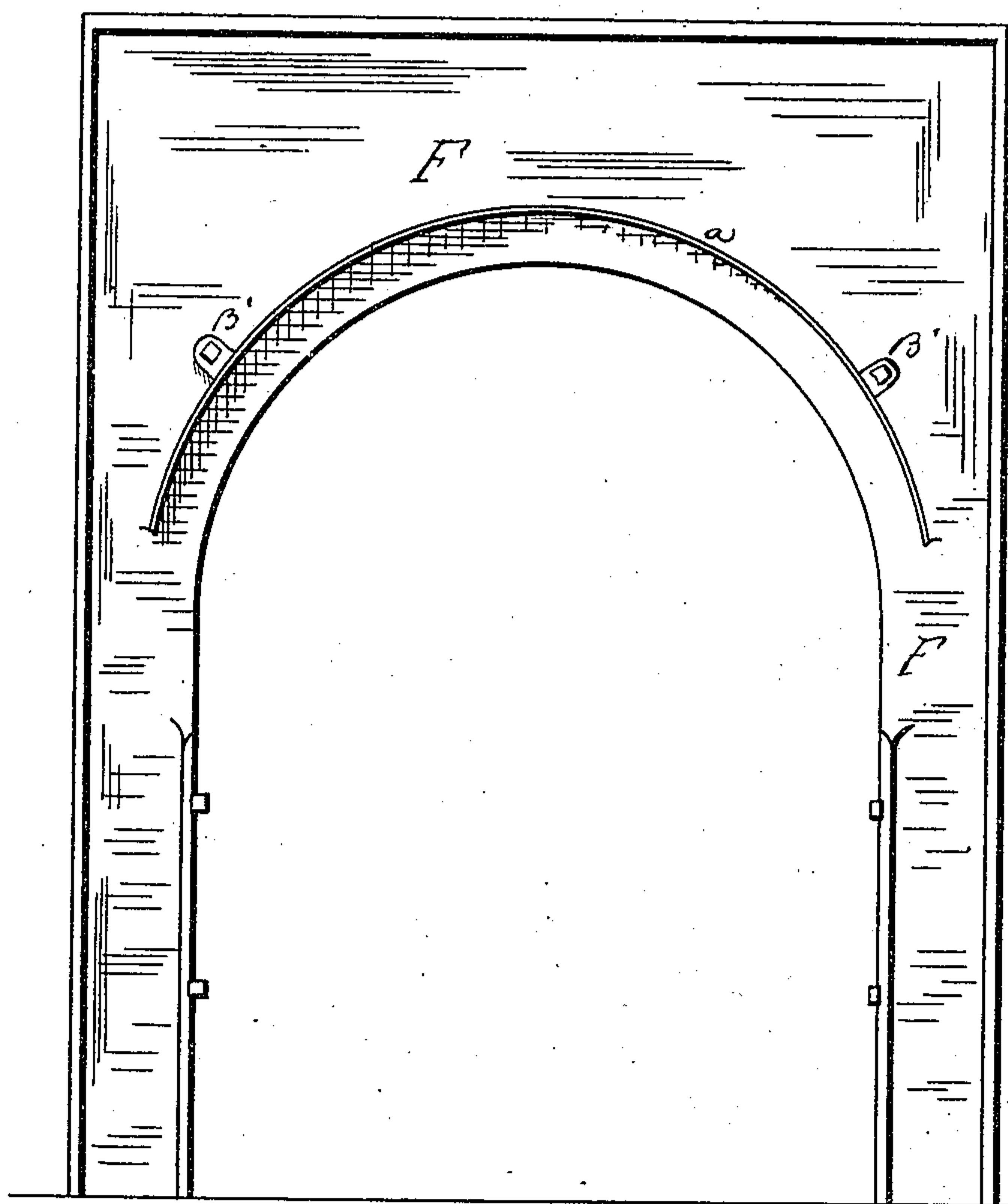


Fig. 1

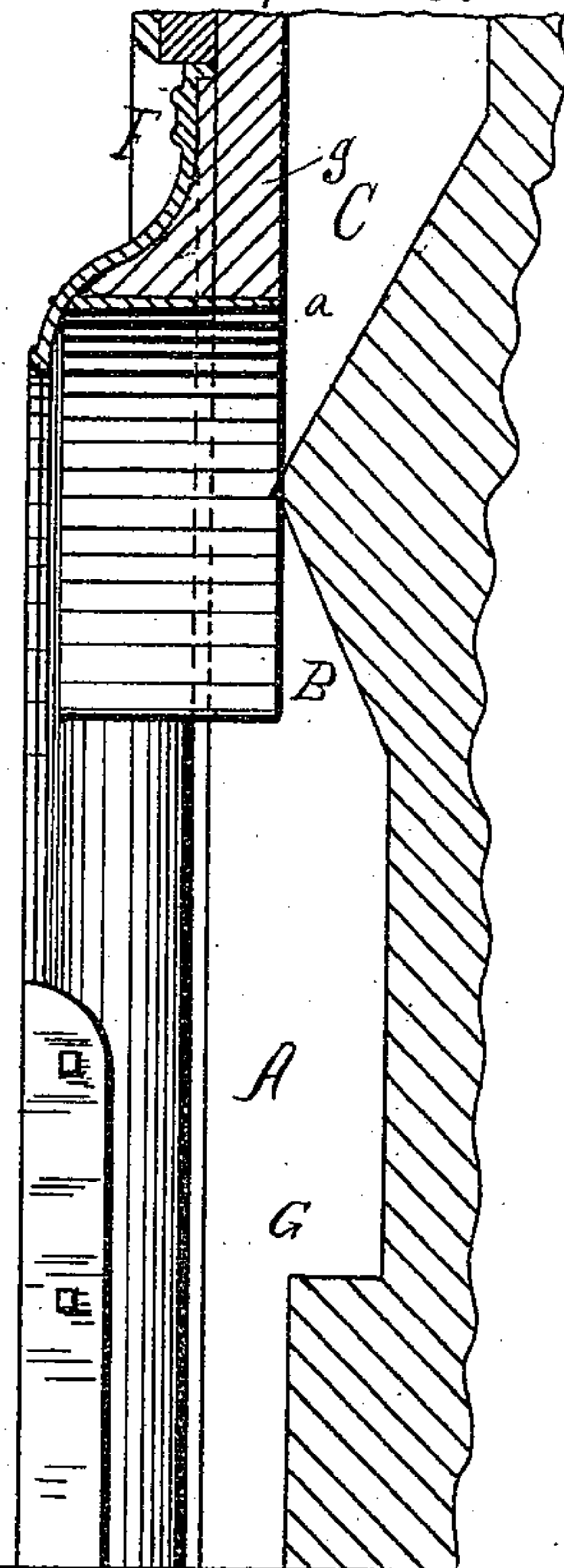


Fig. 2

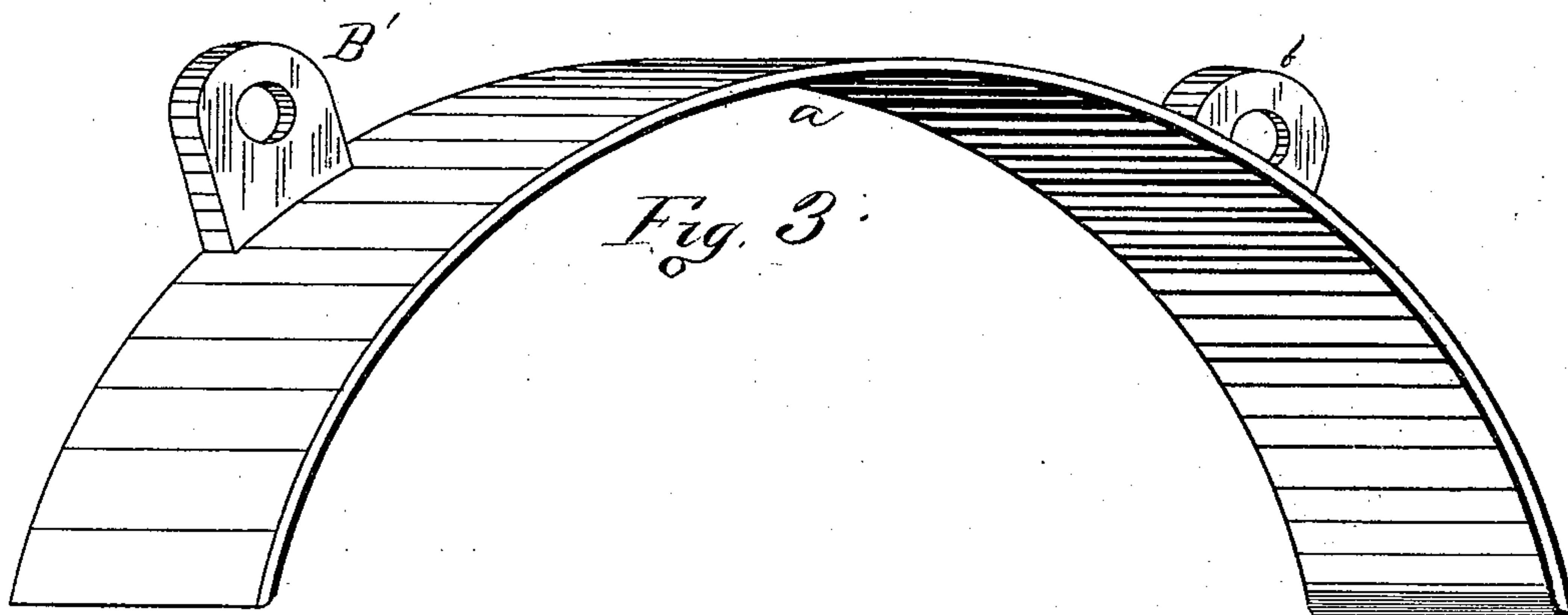


Fig. 3

WITNESSES

Alva A. Moore

Wm. Messer

INVENTOR

Patrick McCauley

by Connolly Bros. & Co.

ATTORNEYS

# UNITED STATES PATENT OFFICE.

PATRICK McCAULEY, OF BRADDOCK, ASSIGNOR OF ONE-HALF TO THOMAS E. NEVILLE, OF PITTSBURG, PENNSYLVANIA.

## FIRE-FRONT.

SPECIFICATION forming part of Letters Patent No. 312,143, dated February 10, 1885.

Application filed May 13, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, PATRICK McCAULEY, of Braddock, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Fire-Fronts; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to fire-fronts—such as are usually made of cast-iron and set in front of the mantel for protection against fire; and the invention consists in the combination, with the fire-front, of an inwardly-projecting flange made removable and provided with lugs having holes for the passage of bolts by which the flange is secured to the fire-front.

Referring to the accompanying drawings, Figure 1 is an elevation of the fire front; Fig. 2, a vertical section of the fire-place with my improvement in position, and Fig. 3 a perspective view of the removable flange.

A designates the fire-place, B the breast thereof, and C the flue or chimney. D is the mantel, or that portion of it immediately over the fire-front, which is designated by F. The grate is located at the point G, as usual. In these fronts the back is usually in shape the reverse of the front face—that is, of a more or less flat shape. This is placed against the fire-place jambs and top, and when unprovided with a flange leaves a crevice between the front and its rear support, which becomes a source of annoyance from smoke creeping through the crevice and defacing the mantel, and also a source of danger where the mantel is of wood, on account of the possibility of fire.

By my invention, however, I avoid all possibility of defacement and danger, and for this purpose I employ the flange *a*, consisting of a cast arch, which extends across the greater part or all of the fire-front opening, as shown in Fig. 1, and springs from near the inner lower edge of the same, thereby constituting a deflector, and also a sort of shelf or support. The flange *a*, for the purposes of attachment to the fire-front, is cast with lugs *B'*, pierced for the passage of bolts, which also pass through and are fastened to the fire-front. If any crack exists at the juncture, it may be closed by a little mortar or cement and a smoke-proof union effected. In some cases it will be desirable to fill in on top of the flange with mortar, cement, or equivalent material, as shown at *g* in Fig. 2 of the drawings.

By the provision of a detachable flange I am enabled to apply my improvement to any of the ordinary fire-fronts, and thus save the expense of an entirely new fire-front when some expedient becomes necessary to prevent the escape of smoke between the front and the mantel. I am also enabled to replace old flanges which have become burned out at a trifling expense.

What I claim as my invention is—

The combination, with the fire-front F, of the removable flange *a*, having lugs *B'*, and attached to the fire-front by bolts, substantially as shown and described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

PATRICK McCAULEY.

Witnesses:

JOS. B. CONNOLLY,  
ALVA A. MOORE.