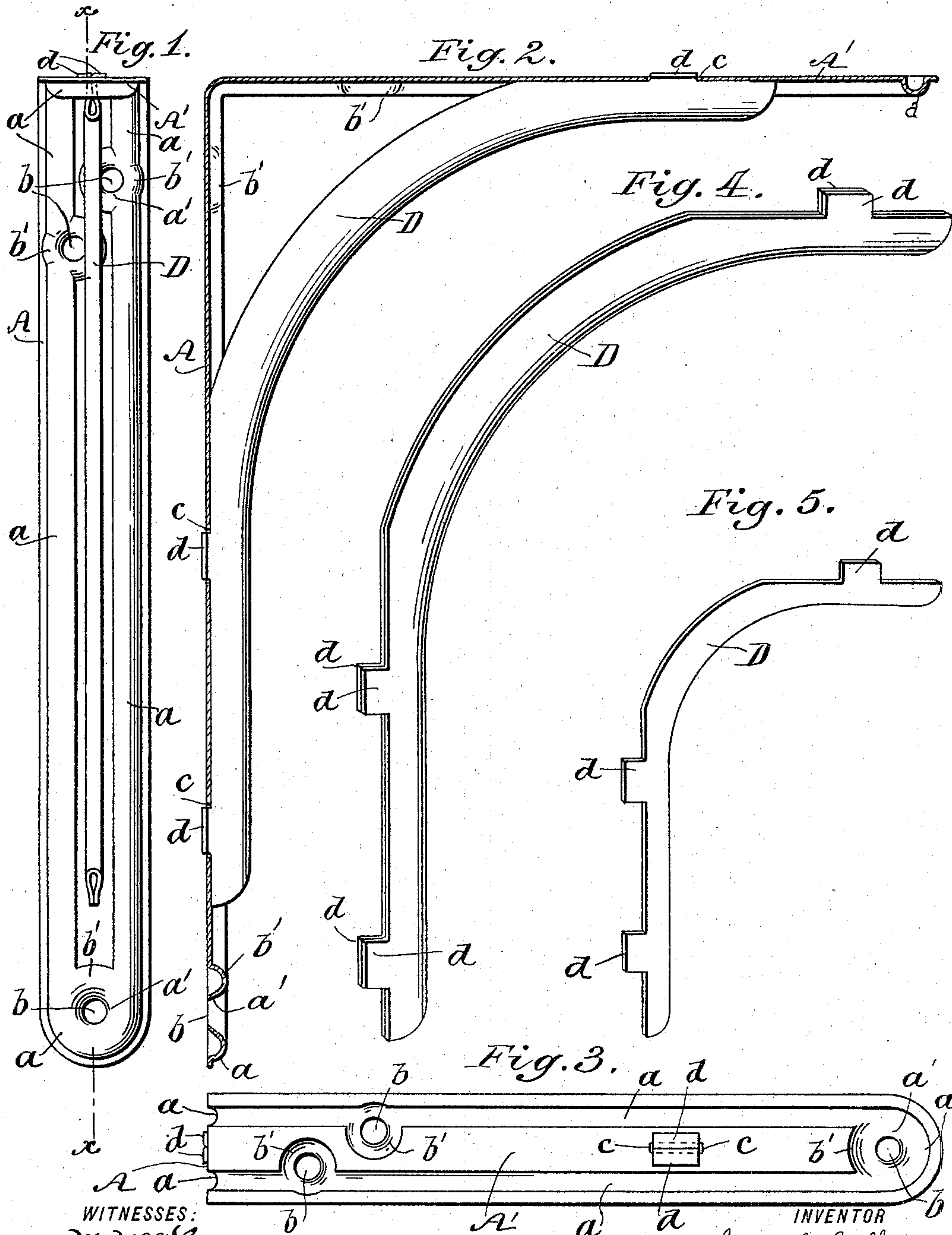


(No Model.)

J. C. GRIFFIN.
SHELF BRACKET.

No. 571,519.

Patented Nov. 17, 1896.



WITNESSES:
M. MacLean.
B. McComb.

INVENTOR

James C. Griffin

BY

Charles Deemer & Co.

ATTORNEYS

UNITED STATES PATENT OFFICE.

JAMES COLEMAN GRIFFIN, OF ALLEGHENY, PENNSYLVANIA.

SHELF-BRACKET.

SPECIFICATION forming part of Letters Patent No. 571,519, dated November 17, 1896.

Application filed January 20, 1896. Serial No. 576,102. (No model.)

To all whom it may concern:

Be it known that I, JAMES COLEMAN GRIFFIN, a citizen of the United States, and a resident of Allegheny, county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Shelf-Brackets, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to improvements in shelf-brackets, the object of the invention being to supply an article of this character which will be so constructed as to combine great strength and durability with lightness of weight, whereby a comparatively small quantity of material will be employed and an inexpensive article produced which will be both useful and ornamental.

The invention will be hereinafter fully described, and specifically set forth in the annexed claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a front elevation of my improved shelf-bracket. Fig. 2 is a sectional side elevation on a line *xx* of Fig. 1. Fig. 3 is a plan view of the bracket. Fig. 4 is a perspective view of the brace employed in the construction of my device, and Fig. 5 is a perspective view of a modified form of brace.

In the practice of my invention the wall and shelf plates *A* and *A'* comprise a single strip of sheet metal which is bent at right angles at the point of intersection between the two said plates. Before bending the strip, however, it is supplied around its entire edge with a raised bead or corrugation *a*, which is preferably semicircular in cross-section, but may be of any other desired shape. This bead or corrugation adds strength to the device and supplies an ornamental finish thereto. Sockets *a'* are then formed through the plate at any desirable location; for instance, at its extreme ends and at points equidistant from the point of bending the plate when the respective wall and shelf plates are formed. These said sockets *a'* communicate with openings *b*,

which openings will extend directly through the plate, and said sockets are surrounded by raised beads *b'*, which beads considerably strengthen the general structure. Into the said sockets *a'* I can introduce the conical heads of screws adapted to secure the bracket to a wall and to shelves which the brackets are adapted to support.

Through the wall-plate *A* and the shelf-plate *A'*, I form slots or openings *c*, which are adapted to engage with malleable tongues *d* of a brace *D*. This said brace in its preferred construction comprises a single strip of sheet metal which is bent into a curved shape, as illustrated in Fig. 4 of the drawings.

In assembling the parts the tongues *d* of the brace *D* are forced through the slots *c* and then bent over upon the plates *A* and *A'* at right angles, whereby the brace *D* is securely attached to the said plates, and a complete bracket of very durable character is produced.

In constructing small brackets the brace *D*, instead of comprising a double thickness of metal, may be simply stamped or punched out of a single thickness of sheet metal, as illustrated in Fig. 5 of the drawings. In this construction the tongues *d* are bent over upon the plates *A* and *A'* in a manner exactly like that described above.

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

1. In a shelf-bracket, the combination of a right-angled sheet-metal strip having a continuous bead-surface projected throughout its entire surface near its edge, and provided with beaded sockets leading into apertures, and slots through its surface; and a sheet-metal brace formed from a single piece and double walled by having its edges bent toward each other and provided with tongues formed integrally therewith adapted to fasten said brace to wall and shelf plates by engagement with slots therein, substantially as shown and described.

2. In a shelf-bracket, the combination of a right-angled sheet-metal strip comprising slotted plates *A*, and *A'*, having an endless bead *a*, upon their surface; with double-

walled brace D, having tongues \bar{d} , formed integrally therewith, said tongues being in engagement with the said slots and bent at right angles upon the said plates, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in pres-

ence of two witnesses, this 17th day of January, 1896.

JAMES COLEMAN GRIFFIN.

Witnesses:

HAROLD W. WATKINS,
JOHN K. EWING.