

(No Model.)

T. BRETT.
FIRE PROOF SAFE.

No. 286,996.

Patented Oct. 23, 1883.

Fig. 1.

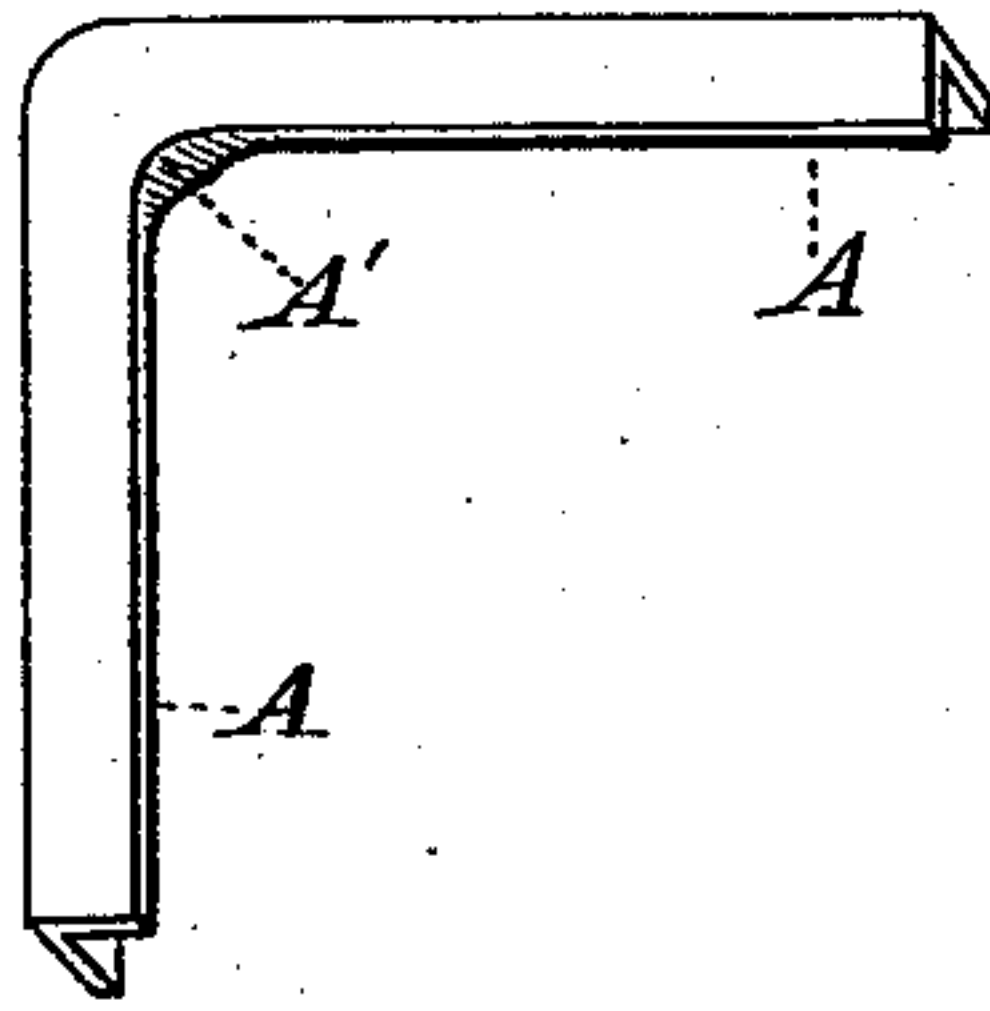


Fig. 2.

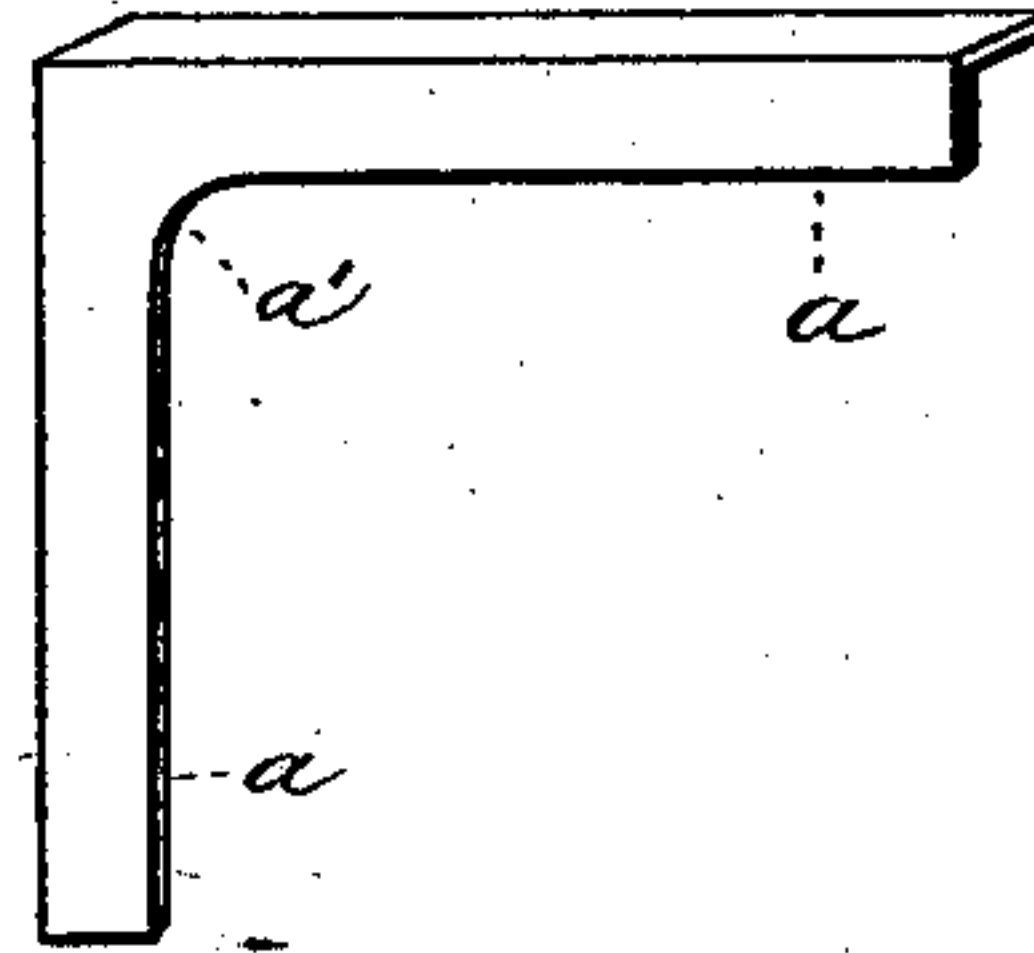


Fig. 3.

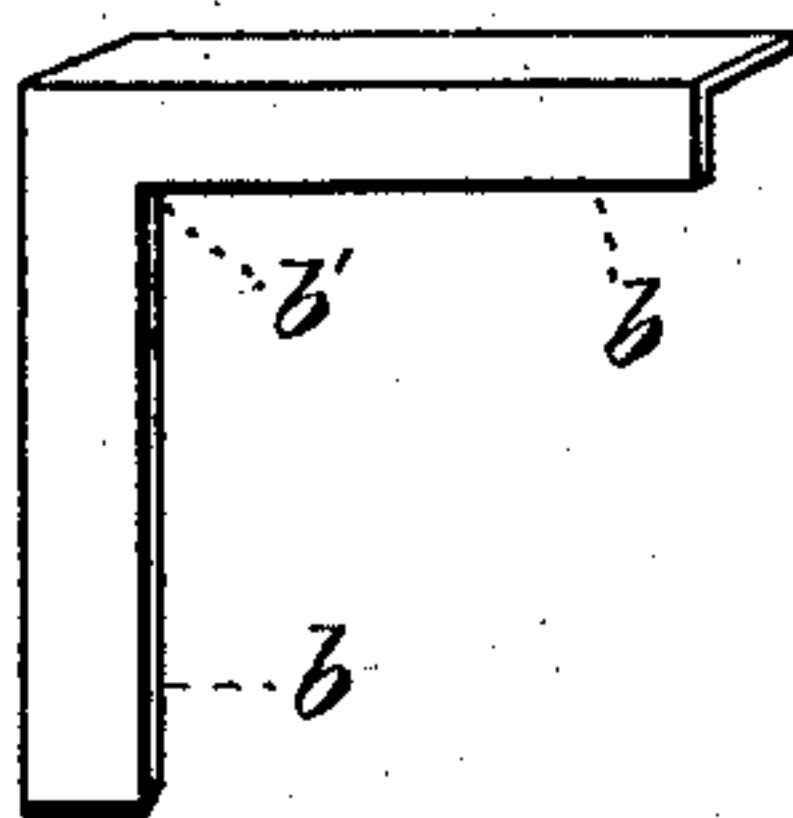


Fig. 4.

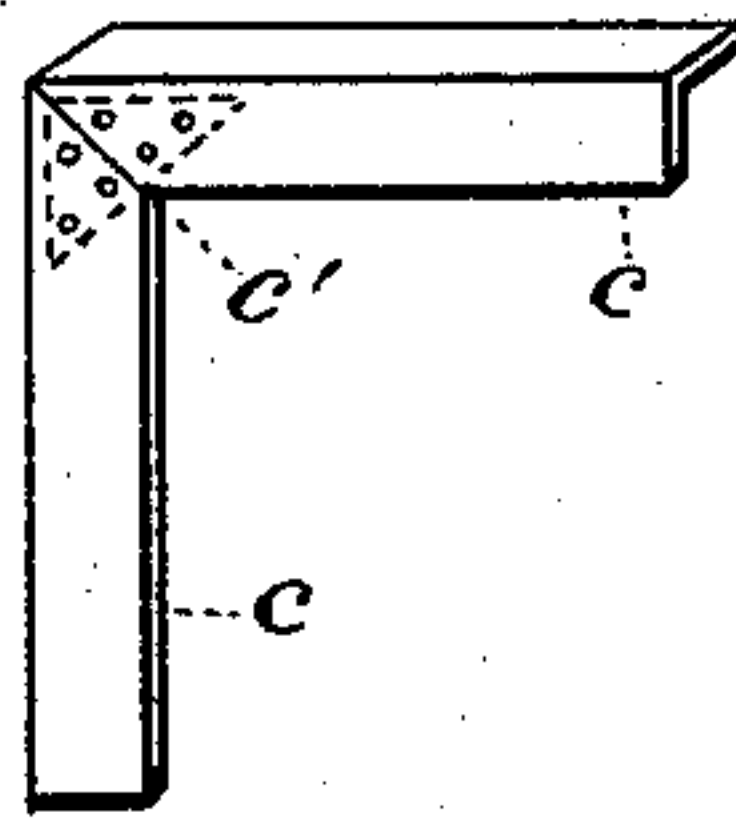
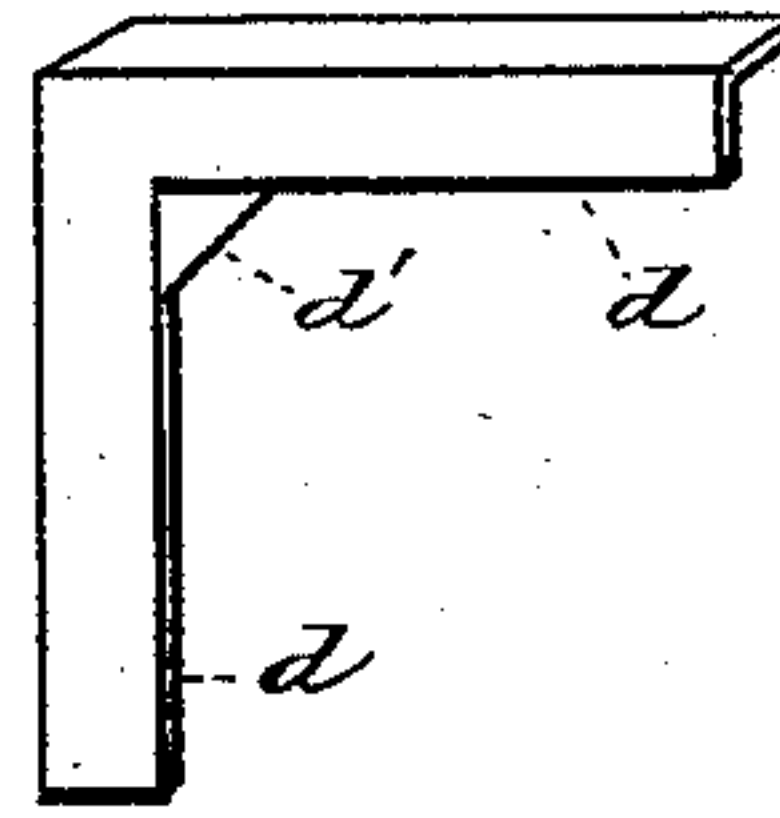


Fig. 5.



WITNESSES

W. Engel
Geo. W. King

Thomas Brett

INVENTOR

By Leggett & Leggett

ATTORNEYS

UNITED STATES PATENT OFFICE.

THOMAS BRETT, OF CLEVELAND, OHIO.

FIRE-PROOF SAFE.

SPECIFICATION forming part of Letters Patent No. 286,996, dated October 23, 1883.

Application filed June 16, 1883. (No model.)

To all whom it may concern:

Be it known that I, THOMAS BRETT, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and
5 useful Improvements in Fire-Proof Safes; 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 pertains to make and use the same.

10 My invention relates to improvements in fire-proof safes; and it consists of certain features of construction and in combination of parts hereinafter described, and pointed out in the claim.

15 The object of my invention is to improve, strengthen, and cheapen that class of door-frames for safes that are made of angle-iron.

Heretofore the most approved way that we have any knowledge of was before bending the
20 angle-iron to cut out triangular pieces from one leg of the angle-iron in such a manner that when the iron was bent at a right angle the edges, when the piece had been cut out, would lap each other, so that they could be welded.

25 After this a piece was sometimes welded in the corner, to strengthen it.

My improved frames are not cut at all at the corners, but that part that has heretofore been cut out in order to make the bend I up-
30 set by means of suitable machinery in the bending thereof, so that there are no welded parts, and there has been nothing cut out, and no pieces set in.

35 In the drawings, Figures 1 and 2 are isometric views showing different shapes in which the corners of the frames may be made, but both embodying my invention. Figs. 3, 4,

and 5 show different kinds that have hitherto been in use.

During the process of bending the angle-iron 40 into the shape shown in Fig. 1, one leg of the angle-iron A A is not only bent, but upset at the part A', so that the extra thickness at this part has absorbed all of what would have otherwise been surplus iron. Fig. 2 is made 45 in the same way, except that the outside corner is made square. In contrast to my improvement in these corners I will mention some of the corners made heretofore. In Fig. 3 the leg of the iron b b has been cut out at b', 50 the edges lapped by each other a little and welded. As shown in Fig. 4, the leg c c has been cut and butted together at c', and a piece riveted on the back side, as shown by the dotted lines. The corner of the frame shown in 55 Fig. 5 was made in the same manner as that shown in Fig. 3, except that a piece at d, possibly the same as that which was cut out, has been welded into the corner, to strengthen it.

By my improvement the frames are made 60 far superior in strength and at a reduced cost compared with those hitherto in use.

What I claim is—

An angle-iron for safe-doors, constructed of an angle-iron bar without seam or joint, and 65 provided with an upset corner, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 9th day of June, 1883.

THOMAS BRETT.

Witnesses:

CHAS. H. DOVER,
W. E. DONNELLY.