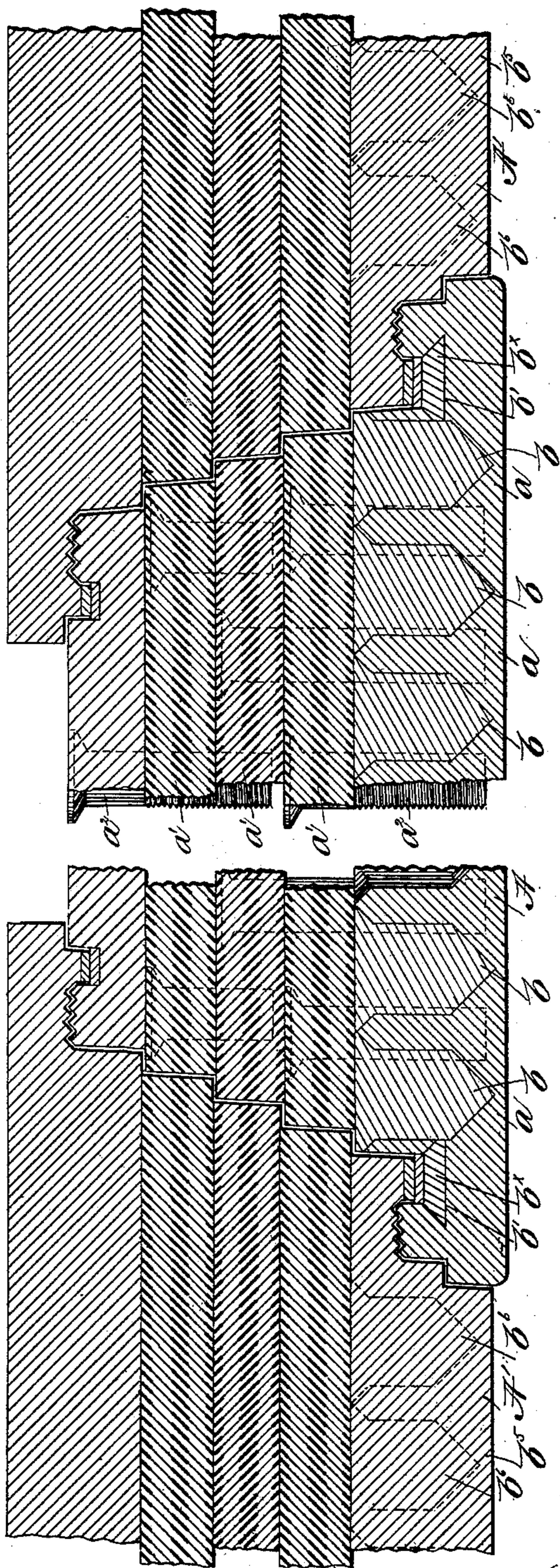


(No Model.)

G. L. DAMON.
SAFE DOOR.

No. 440,695.

Patented Nov. 18, 1890.



Witnesses,

George Huntington

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UNITED STATES PATENT OFFICE.

GEORGE L. DAMON, OF BOSTON, MASSACHUSETTS.

SAFE-DOOR.

SPECIFICATION forming part of Letters Patent No. 440,695, dated November 18, 1890.

Application filed July 19, 1890. Serial No. 359,299. (No model.)

To all whom it may concern:

Be it known that I, GEORGE L. DAMON, of Boston, county of Suffolk, State of Massachusetts, have invented an Improvement in Safe-
5 Doors, of which the following description, in connection with the accompanying drawing, is a specification, like letters on the drawing representing like parts.

This invention relates to doors for safes,
10 vaults, and other depositories or receptacles for money and valuables, and has for its object to improve the construction of the same, whereby they are rendered more burglar-proof than the safe-doors as now constructed
15 and known to me.

The particular features in which my invention consists will be pointed out in the claims at the end of this specification.

The drawing represents in transverse section a sufficient portion of a safe and its door to enable my invention to be understood.

In accordance with my invention the door
A of the safe is made of an outside or armor plate *a*, of soft rolled steel, and a series of independent plates or bars *a'*, which are secured to each other and to the armor-plate by
25 suitable bolts *a*². The armor-plate *a* is reinforced and rendered proof against the action of a drill or other instrument in the hands of
30 a burglar by means of plugs *b*, preferably of Mushet steel, which are fitted into sockets or holes in the armor-plate before the first bar or plate *a'* is secured in place. The armor-plate *a* is further strengthened at that portion
35 which overlaps the jamb A' of the safe-door by means of a bar *b*^x, preferably of Mushet steel, which is dovetailed in shape and fitted into a dovetailed slot or groove *b'* in the armor-plate.

The plugs *b* are independent of the armor-plate, so that they are free to turn with a drill or other instrument when the latter is forced through the armor-plate and into contact with the said plugs, thereby rendering it
45 practically impossible to drill through the safe-door.

The jamb A' of the safe-door has its outer plate *b*⁵ provided on its inner side with sock-

ets or holes into which are fitted plugs *b*⁶, preferably of Mushet steel, the said plugs being
50 loose in their sockets to permit them to be readily turned by a tool in case the outer plate *b*⁵ is penetrated. The heads of said plugs are tangential to each other, thus effectually protecting the entire surface of the
55 plate, and are also flush with the inner side of said plate. By such construction the outer plate only is provided with sockets, and the flat inner plates can be attached directly to the armor-plate.
60

Instead of Mushet steel I may use any metal having like properties, and therefore an equivalent, as, for instance, so-called "white cast-iron" chilled, or "franklinite." I use these
65 metals because when heated by a blow-pipe they in cooling retain their hardness, they being so hard as not to be punched by drills or boring or cutting tools.

The safe-door in practice will be hung upon hinges (not shown) in the usual manner now
70 commonly employed.

I claim—

1. In a door for safes, vaults, and other receptacles, the combination, with an outside or armor plate provided with a dovetailed groove
75 or slot and having holes or sockets, and independent rotatable plugs fitted into the said sockets or holes, of a dovetailed bar fitted into said dovetailed slot, and one or more bars or plates secured to the said armor-plate,
80 substantially as described.

2. The combination, with the door-jamb having its outer plate provided on its inner side with sockets or holes, of plugs *b*⁶, fitted
85 into said sockets, the heads of said plugs being tangential to each other and flush with the inner surface of said plate, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of
90 two subscribing witnesses.

GEO. L. DAMON.

Witnesses:

GEO. W. GREGORY,
AUGUSTA E. DEAN.