(No Model.)

J. H. GILBERT.

FLUE PROTECTOR.

No. 432,397. Patented July 15, 1890.

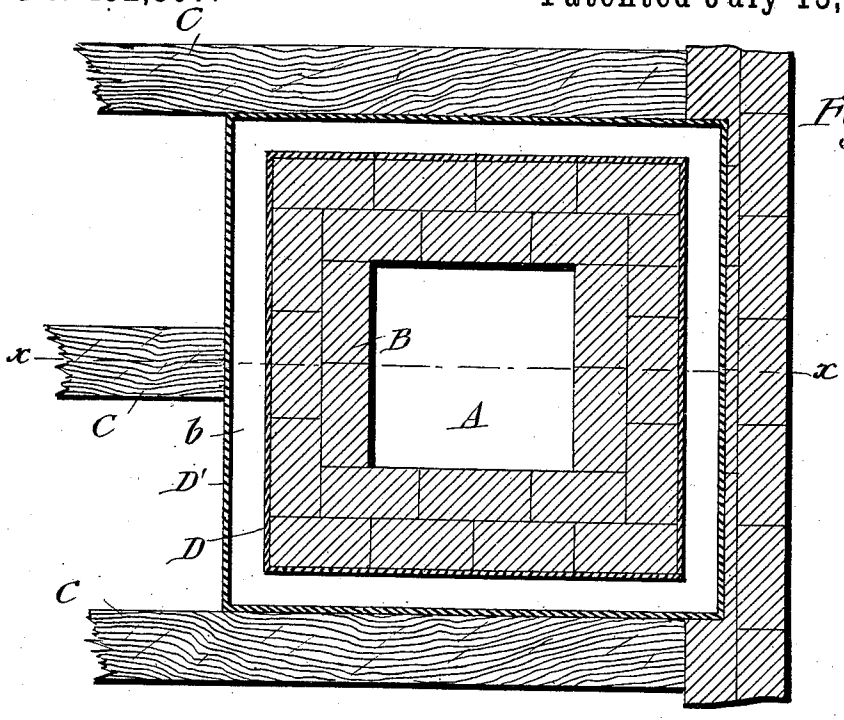


Fig. 1.

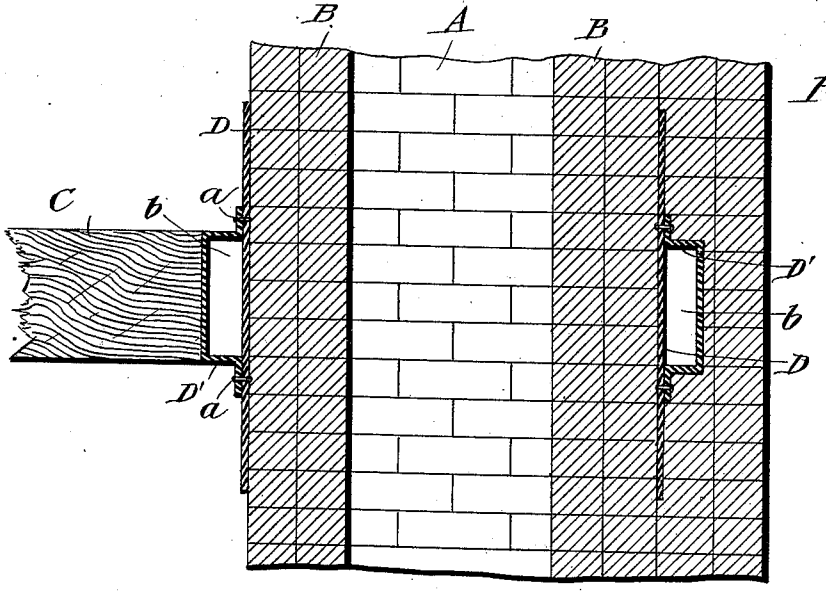


Fig. 2.

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UNITED STATES PATENT OFFICE.

JOSEPH H. GILBERT, OF PHILADELPHIA, PENNSYLVANIA.

FLUE-PROTECTOR.

SPECIFICATION forming part of Letters Patent No. 432,397, dated July 15, 1890.

Application filed February 28, 1890. Serial No. 342,086. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH H. GILBERT, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and Improved Flue-Protector, of which the following is a full, clear, and exact description.

My invention relates to improvements in flue-protectors. It is well known that many fires are caused by defective chimney-flues. The workmen in building the chimney are very liable to carelessly apply the mortar, leaving spaces between the ends of the bricks through which the fire or sparks from the flue pass and ignite the surrounding wood-work.

The object of my invention is to provide a simple, inexpensive, and efficient device that may be easily applied to a chimney, and that will prevent fire from passing through the same.

The invention will be hereinafter fully described, and specifically pointed out in the claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a horizontal section of a chimney and flue provided with my attachment, and Fig. 2 is a broken vertical section of the same on the line *x x* of Fig. 1.

The flue A of the chimney is inclosed by the walls B in the usual manner, and at a point opposite the floor or other joists C the protector is attached.

The protector consists of a plate D, which is wide enough to extend well above and below the joists C, and the rectangular air-box D′, which is about the width of the joists and is attached to the plate D by the rivets *a*. The box D′ extends entirely around the chimney, and instead of being riveted to the plate D may be formed thereon. In either case an air-space *b* will be formed between the joists C and the chimney corresponding to the depth of the box D′.

The plate D will prevent the sparks or flame from coming through the walls B of the chimney, and the box D′ will prevent the joists from being overheated.

The device may be attached to the chimney by plaster or in any suitable manner, and will effectually prevent the wood-work from being ignited by fire from the chimney.

The plate D and the box D′ are made, preferably, of galvanized iron, but may be of any suitable metal.

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

The combination, with a masonry chimney, of a rectangular band D, surrounding the same and projecting above and below the floor-line, and a rectangular box around the outer side of said band and of about the same height as the floor-joists, whereby sparks from the interior of the chimney cannot pass through interstices between the bricks into the space between the ceiling and floor or behind the base-boards, substantially as set forth.

JOSEPH H. GILBERT.

Witnesses:
J. H. WHEELER,
H. B. WILLIAMS.