

(No Model.)

G. KELLY.

MEANS FOR SECURING WIRE LATHING TO FIRE PROOF PARTITIONS, &c.

No. 358,203.

Patented Feb. 22, 1887.

FIG. 1.

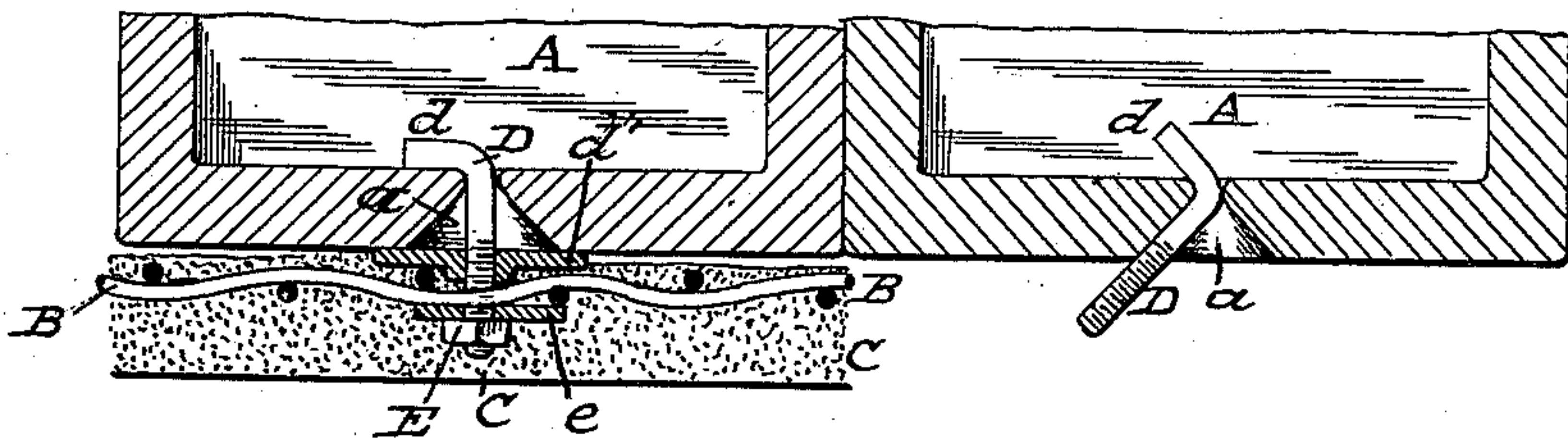


FIG. 2.

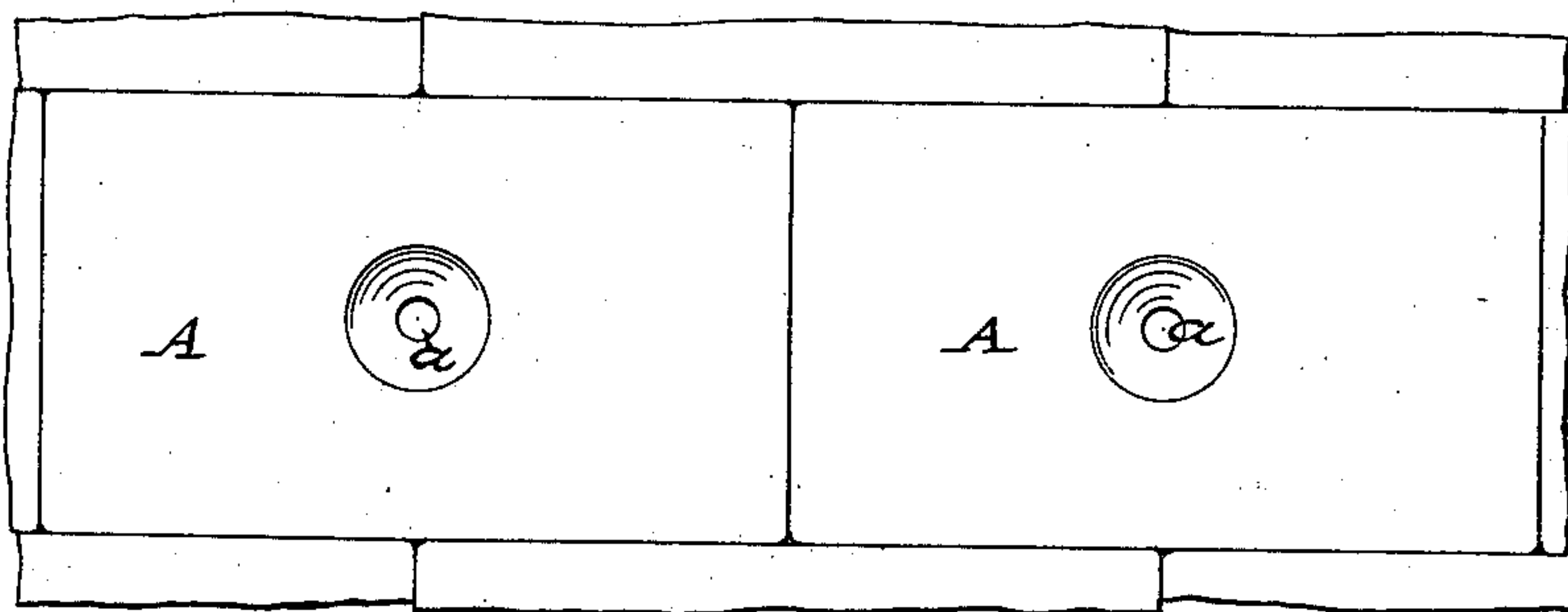


FIG. 3.

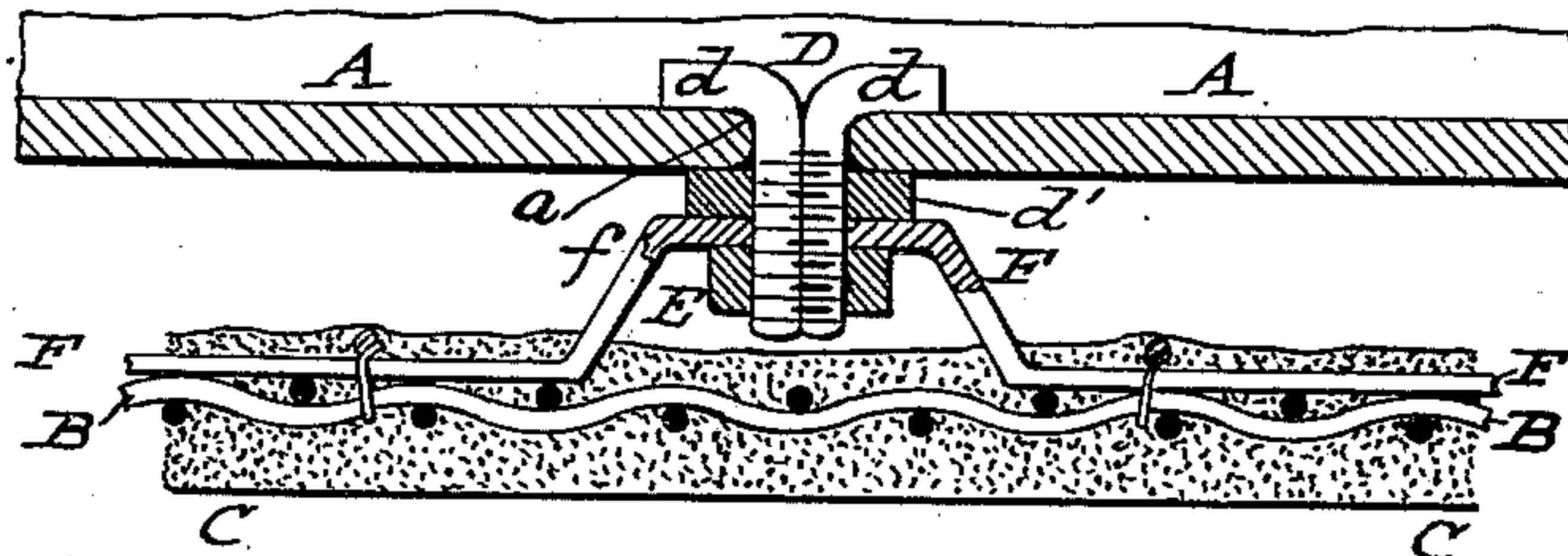
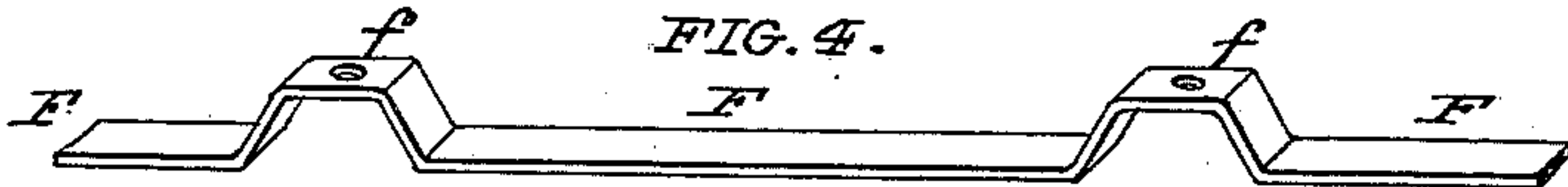


FIG. 4.



ATTEST:

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# UNITED STATES PATENT OFFICE.

GEORGE KELLY, OF CHICAGO, ILLINOIS.

MEANS FOR SECURING WIRE LATHING TO FIRE-PROOF PARTITIONS, &c.

SPECIFICATION forming part of Letters Patent No. 358,203, dated February 22, 1887.

Application filed June 1, 1886. Serial No. 203,843. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE KELLY, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Means for Securing Wire Lathing to Fire-Proof Partitions, &c.; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a detail section illustrating my improvement adapted to a hollow tile, wall, or other division, and also illustrating the mode of inserting the lathing-attaching bolts into place; Fig. 2, a detail elevation of the wall or partition; Fig. 3, a detail section illustrating my improvement applied to a wall, ceiling, or other surface of sheet or plate iron, and also showing the means for forming a "deadening-space" between the wall, &c., and the body of plaster; and Fig. 4, a detail perspective view of the metallic strip for forming the deadening-space.

Similar letters of reference indicate like parts in the several views.

To enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to more fully describe its construction and mode of application and use.

Referring to the drawings, A represents the wall, ceiling, or other surface to be plastered, and which is of any usual fire-proof construction, either hollow tiling, as represented in Figs. 1 and 2, or sheet or plate metal, as represented in Fig. 3. B represents the lathing-web of wire cloth or netting, and C the coating or body of plaster.

My present improvement relates, mainly, to the mode or means for firmly attaching in a simple and cheap manner the wire lathing B to the wall or partition A, and my improvement consists in forming the wall, ceiling, &c., with a series of small apertures, *a*, at suitable distances apart for the reception of attaching-bolts D, which are provided with prongs *d*, bent at right angles to the shank of the bolt, and which are adapted to be passed through the apertures in an endwise direction, as in-

dicated to the right in Fig. 1, and after insertion the bolt is turned to a position at right angles to the wall or other surface, so as to engage said prongs *d* back of and against an edge of the apertures, in manner indicated in Figs. 1 and 3, after which a screw-threaded nut or washer, *d'*, is introduced over the bolt-shank to hold said bolt in proper position. The main shank of the bolt is screw-threaded, as shown, and provided with a nut, E, which, after the wire lathing B is placed in position, is screwed up to hold the same in place, and when required, owing to a wide spacing of the wire-netting, a washer, *e*, may be interposed, as shown.

The attaching-bolt D may be of a simple cylindrical shape, as indicated in Fig. 1; or it may be made from two pieces of half-round iron placed together, as indicated in Fig. 3, in which case the prongs will project in opposite directions, as shown.

Instead of nuts E for confining the parts together, a wedge or other equivalent device can be substituted therefor without departing from the spirit of my invention.

Where it is desired to form an air-space between the wall surface and body of plastering, I employ a strip of sheet metal, F, (see Figs. 3 and 4,) having projections or offsets *f*, which strips are attached at suitable distances apart to the wire lathing in any suitable manner. By this means distance projections are formed upon the wire lathing, to hold the same and the body of plaster away from the wall and form a deadening-space between the same. When such space or distance strips are employed, it is preferable to make the projections *f* act as the means of attachment to the wall or partition by forming the same with an orifice for the passage of the attaching-bolt D, in manner indicated in Figs. 3 and 4.

My present improvement is specially adapted for attaching wire lathing in situations where access cannot be gained to the rear of the wall or other surface to use the ordinary bolt and nut or other fastening commonly employed, and also where the want of thickness or the nature of the material used to form the wall prevents the same from being tapped to receive an attaching-bolt.



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

1. A means for securing wire lathing to fire-proof walls, &c., consisting of a bolt, D, having a right-angle prong or prongs, *d*, at one end, and which is adapted to be engaged with the wall through an aperture, *a*, the parts being all combined in manner essentially as  
10 herein described.

2. A means for securing wire lathing to fire-proof walls, &c., consisting of a bolt, D, having bent prong or prongs *d* at one end, and which is adapted to be engaged with the wall through  
15 an aperture, *a*, and is provided with a holding nut or washer, *d'*, the parts being all combined in the manner essentially as herein described.

3. As a means for securing wire lathing to  
20 fire-proof walls, &c., a bolt formed of two pieces of half-round iron, having bent prongs *d* at one end and provided with a nut at the other

end, and adapted to be engaged in the wall through an aperture, *a*, the parts being all combined essentially in the manner set forth. 25

4. As a means for securing wire lathing to fire-proof walls, &c., the combination of the wire-cloth B, metallic strip F, having projections or offsets *f* along its length, and an attaching device, as D, essentially as herein  
30 described.

5. As a means for securing wire lathing to walls, &c., the combination of the wire-cloth B, metallic strip F, having projections or offsets along its length, a fastening device, as D, 35 and a holding nut or washer, *d'*, essentially as set forth.

In testimony whereof witness my hand this 29th day of May, 1886.

GEORGE KELLY.

In presence of—

ROBERT BURNS,

GEO. H. ARTHUR.