

No. 619,968.

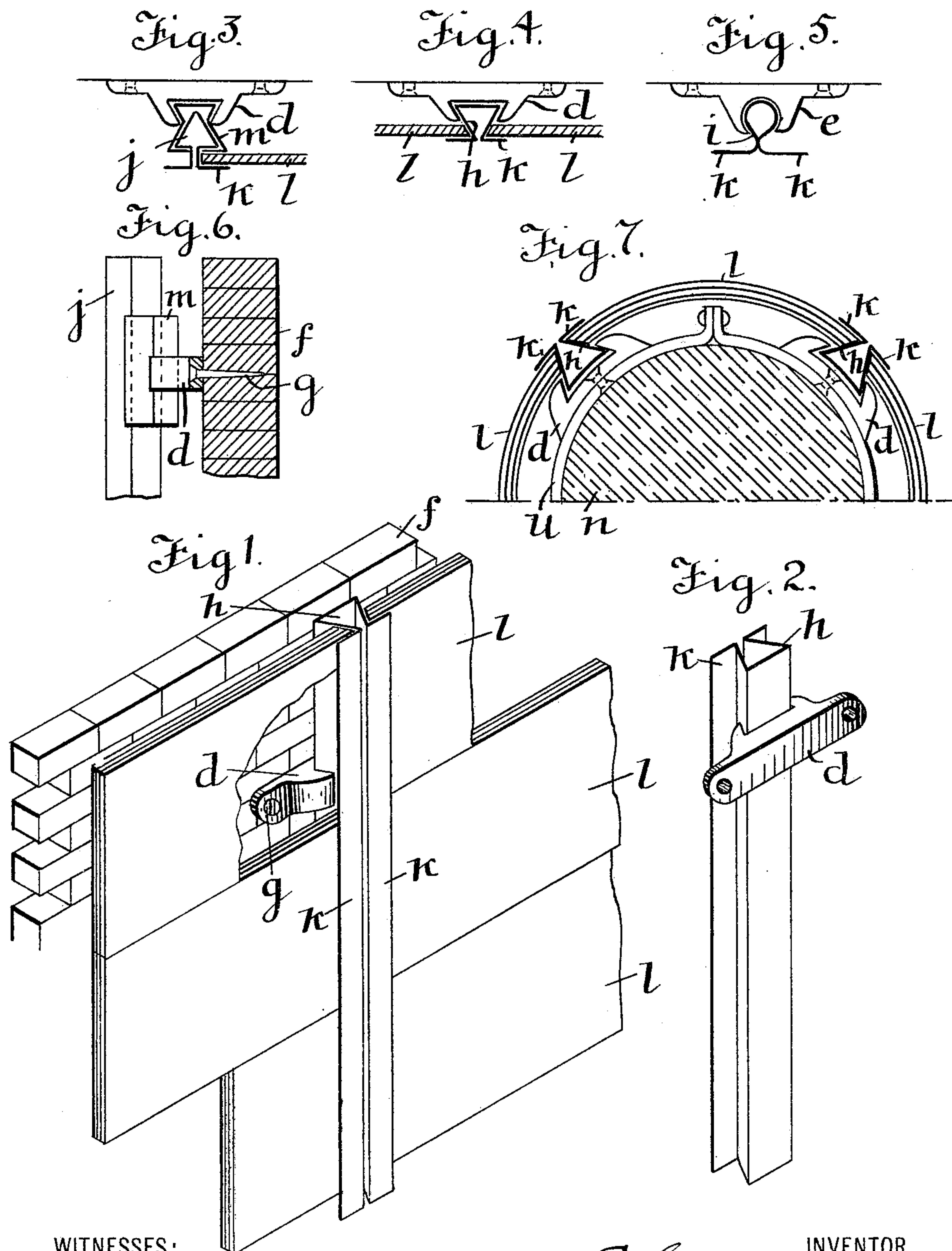
Patented Feb. 21, 1899.

E. R. LEONARD.

WALL FURRING.

(Application filed Mar. 11, 1898.)

(No Model.)



WITNESSES:

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ELOF R. LEONARD, OF NEW YORK, N. Y.

WALL-FURRING.

SPECIFICATION forming part of Letters Patent No. 619,968, dated February 21, 1899.

Application filed March 11, 1898. Serial No. 673,439. (No model.)

To all whom it may concern:

Be it known that I, ELOF R. LEONARD, a citizen of the United States of America, and a resident of New York, in the county and State of New York, have invented certain new and useful Improvements in Wall-Furrings, of which the following is a specification.

My invention relates to fireproof wall-furring construction; and it consists of upright metallic furring-strips for supporting the inner wall-finish of plaster lining and improved means of attaching said strips to the brick, stone, or other fireproof wall, as hereinafter described, reference being made to the accompanying drawings, in which—

Figure 1 is a perspective view of part of a brick wall and the inner lining in which my improvements are represented. Fig. 2 is a perspective view of one form of a furring-strip of my improvement and my improved attaching-cleat, the view being in reverse of that of the same parts in Fig. 1. Figs. 3, 4, and 5 are transverse sections of different forms of furring-strips and top views of the cleats. Fig. 3 also shows an end view of a short retaining-sleeve to be used in some cases for securing the strip. Fig. 6 is a side elevation of the devices of Fig. 3, with the cleat in section, and a section of the wall. Fig. 7 is a top view of part of a post or column, showing the application of my improved furring-strips for inclosing it in the plaster finish.

I provide upright sheet-metal plaster-wall-supporting strips molded in various forms of transverse section adapted to be confined in an undercut or equivalent notch of a metallic cleat, as *d e*, or other equivalent forms having a flat base adapted to be screwed on the face of the wall and capable of being adjusted along the strips and along the surface of the wall, to be suitably placed on the wall *f* in relation to the cement joints, to be secured thereto by nails *g*, inserted through holes of the cleats and driven into the mortar or cement joints between the bricks or stones, said strips being formed with a dovetail, round, or other shaped rib *h i j*, or the like, for being held in the notches and with retaining-flanges *k* for confining the ends of fireproof lathing or other form of plates or boards *l* to receive the plaster finish. The cleats also serve to support the strips any desired distance from

the walls and so afford larger air-space with strips of smaller size than if the strips were attached directly to the walls without the cleats. The cleats may be thicker or thinner, according to the width of air-space desired.

The cleats are slipped on the strips from one end and are adjustable along them when set up against the wall to be readily placed on the wall where the nails may be driven in the joints.

Between the flanges *k*, which are the outermost parts of the strips when set up in position, and the rib portions of the strips are channels or grooves in which the ends of the plaster-receiving sheets or plates are confined suitably for their support when set in position. The preferred form of these channels or grooves is represented in Figs. 3 and 6, in which the inner walls are parallel with the outer walls and afford better support against the lathing-sheets being forced backward out of position by the pressure of the plastering and other pressure after the plaster is applied. For admitting these sheets or boards after the furring-strips have been set in position a flange of one of two strips between which the said sheets or plates are to be placed may be temporarily bent outward, preferably at the upper end of the strip, for a distance equal to the width of one sheet or plate, so that they may be put in and the flange may be bent back again afterward.

When it is desirable to set the plaster wall a greater distance from the main wall than it will be without making the furring-cleats of greater thickness than is otherwise desirable, short sleeves, as *m*, may be employed to connect the strips with the cleats, said sleeves having the requisite form to secure the strips in one part of their internal space and to be confined in the notches of the cleats by another part.

The furring-strips may be formed in sheet-metal bending apparatus or in grooved rolls, as is well understood in the art.

It will be seen that the adjustable connection of the cleats with the strips is a matter of considerable advantage as compared with cleats fixedly attached, which would seldom apply on the walls where nails can be driven in the joints; but for applying the plaster finish to posts or columns *n* it is unnecessary

that the cleats be adjustable along the strips, because the cleats may be attached to metal bands *u*, to be clamped around the posts, as represented in Fig. 7; but the strips having the body portion and the flanges with the grooves for reception of the ends of the plates are alike serviceable in this application as for partitions.

My improved adjustable fastening-cleat is also applicable to solid rolled or cast metal bars, having the requisite exterior form and flanges for being secured in the cleats and for securing the plaster-holding sheets or plates.

I claim—

1. The combination of attaching-cleats, and a molded sheet-metal strip or bar, said cleats having an undercut or like securing notch, and said strip or bar having a rib adapted to be confined in said notches, also having channels or grooves adapted for confining the plaster-holding sheets or boards, said channels or grooves having the inner wall paral-

lel with the outer wall for positive support against backward pressure, and said cleats being adjustable along the strip or bar substantially as described.

2. The combination of attaching-cleats, a molded metallic strip or bar, and a sleeve for connecting said cleat and strip or bar, said cleats having an undercut or like securing notch, said strip or bar having flanges adapted for confining the plaster-holding sheets or plates, and said sleeve having a part adapted for securing the strip or bar, and another part adapted for being secured in the notch of a cleat and said sleeve and cleat being adjustable along the strip or bar substantially as described.

Signed by me at New York this 5th day of March, 1898.

ELOF R. LEONARD.

Witnesses:

A. P. THAYER,
J. HOWARD.