

(No Model.)

J. H. BLAKESLEY.
FIREPROOF FLOOR, ROOF, &c.

No. 558,597.

Patented Apr. 21, 1896.

Fig. 1.

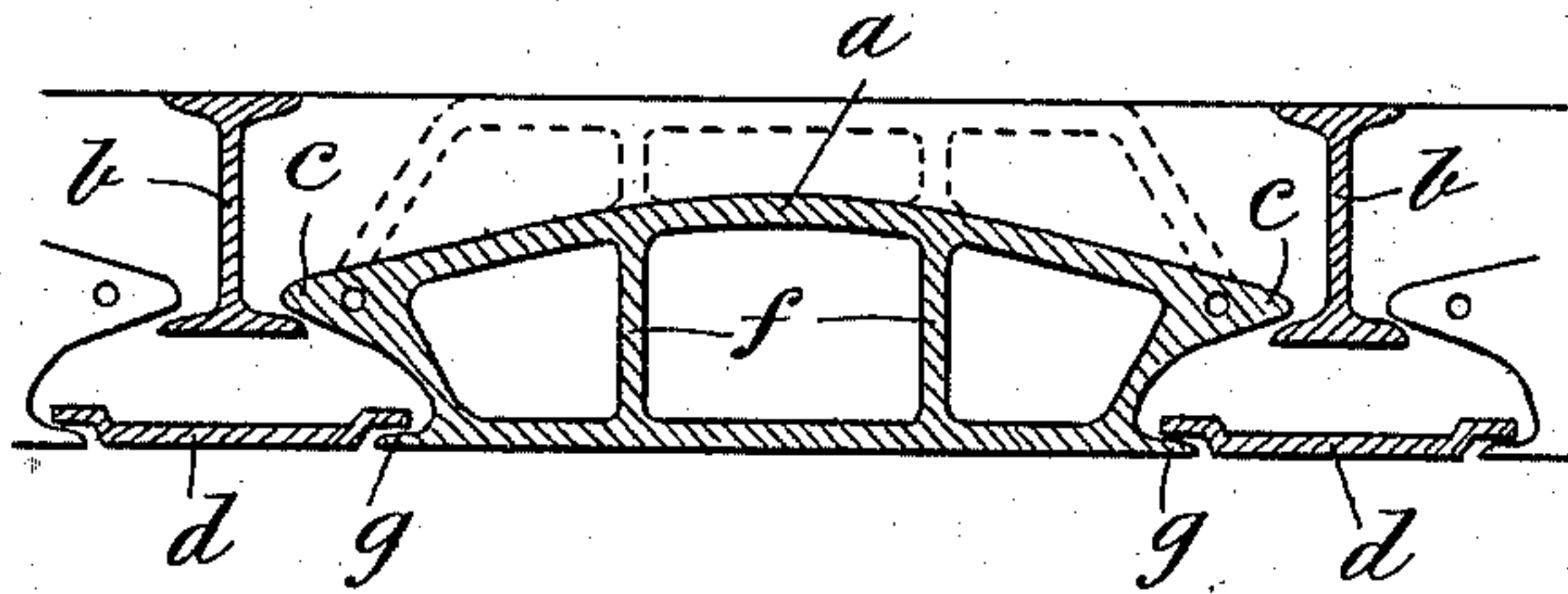


Fig. 2.

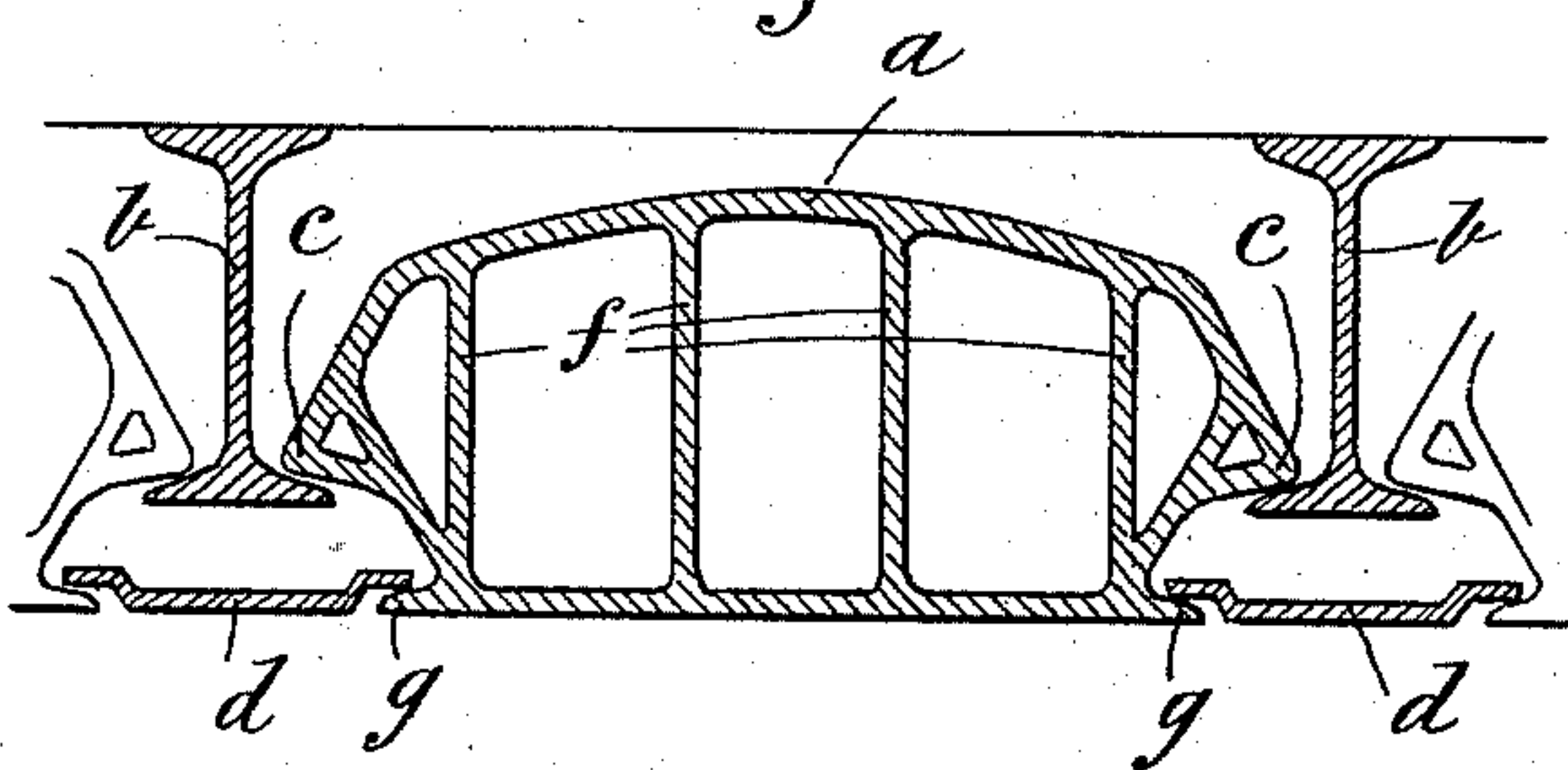
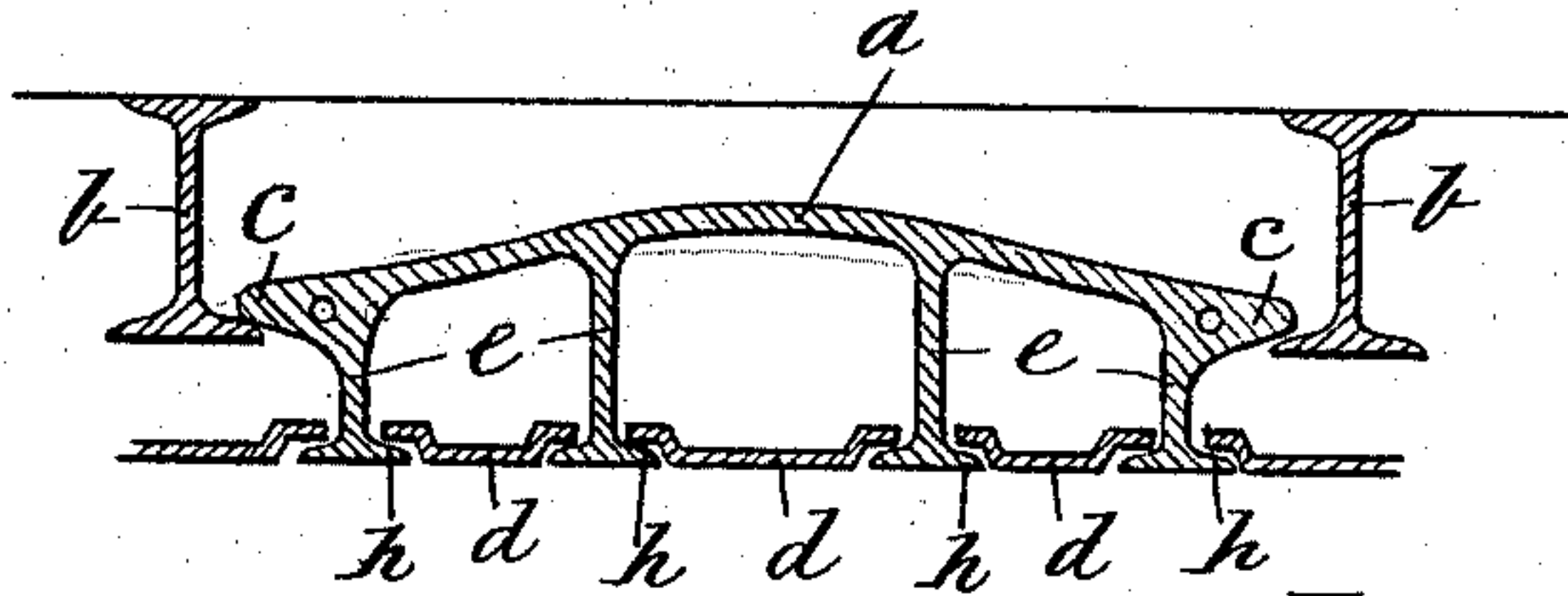


Fig. 3.



Witnesses.

Alfred Nuttall
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UNITED STATES PATENT OFFICE.

JOHN HOLMES BLAKESLEY, OF LONDON, ENGLAND.

FIREPROOF FLOOR, ROOF, &c.

SPECIFICATION forming part of Letters Patent No. 558,597, dated April 21, 1896.

Application filed January 21, 1895. Serial No. 535,609. (No model.) Patented in England April 2, 1894, No. 6,552.

To all whom it may concern:

Be it known that I, JOHN HOLMES BLAKESLEY, civil engineer, of 39 Victoria Street, in the city of Westminster, London, England, have invented new and useful Improvements in Fireproof Floors, Roofs, Girders, Joists, and the Like, (for which I have obtained a patent in Great Britain, No. 6,552, bearing date April 2, 1894,) of which the following is a specification.

My invention relates to improvements in fireproof floors, roofs, girders, joists, and the like, and in order that my invention may be thoroughly understood I now proceed to describe the accompanying drawings thereof, reference being had to the letters marked thereon.

Figure 1 is a vertical section of a single-arched block having limbs resting on joists with tiles. The dotted lines indicate a separate floor-tile which may be fixed or separate. Fig. 2 is a vertical section of an alternate design. Fig. 3 is a vertical section of a single-arched block having struts, stays, or pendants and limbs to support tiles for ceiling.

The fireproofing material is divided into arches or single-arched blocks *a*, resting on the joist *b*, in one piece, backed up by cement or other suitable material. These arches end in limbs *c*, suitably adapted for the abutment of the arch and for the attachment of other required limbs. From these arches depend limbs *g*, which hold flat tiles *d*, to form a level ceiling on the under side, one such flat tile *d* under each joist and other or others filling the space left vacant under the arch.

In Figs. 1 and 2 I construct single-arched blocks *a* with struts, stays, or pendants *f* and projecting limbs *c* on each side for resting on the joists *b*. Beneath each projecting limb *c* is constructed a smaller limb *g* to support tiles *d* for ceiling.

If preferable, as in Fig. 3, I form a single-arched block *a*, with projecting limbs *c* for resting on the joists *b*. The arched block *a* on the under side is provided with pendants *e*. These said pendants are provided with limbs *h* for supporting tiles *d* for ceiling.

The fireproof casing in all parts is made of fire-clay, terra-cotta, or any other suitable fireproof material, and the spaces (spandrels) are, where required, filled or leveled with concrete, asphalt, or other material in the usual way, or can be covered with concrete, asphalt, or any other material, as desired, or the top may be leveled by a flat tile attached or not to the arch.

It will be understood that the foregoing is given by way of illustration, and that the shapes, materials, and parts may be varied in many ways within the scope of my invention.

What I claim, and desire to secure by Letters Patent of the United States, is—

In fireproof floors, the combination of the single arch *a* with the struts, stays or pendants and separate flat ceiling-tile underneath, for the purpose specified.

JOHN HOLMES BLAKESLEY.

Witnesses:

ALFRED NUTTING,
J. C. MITCHELL.