

No. 609,826.

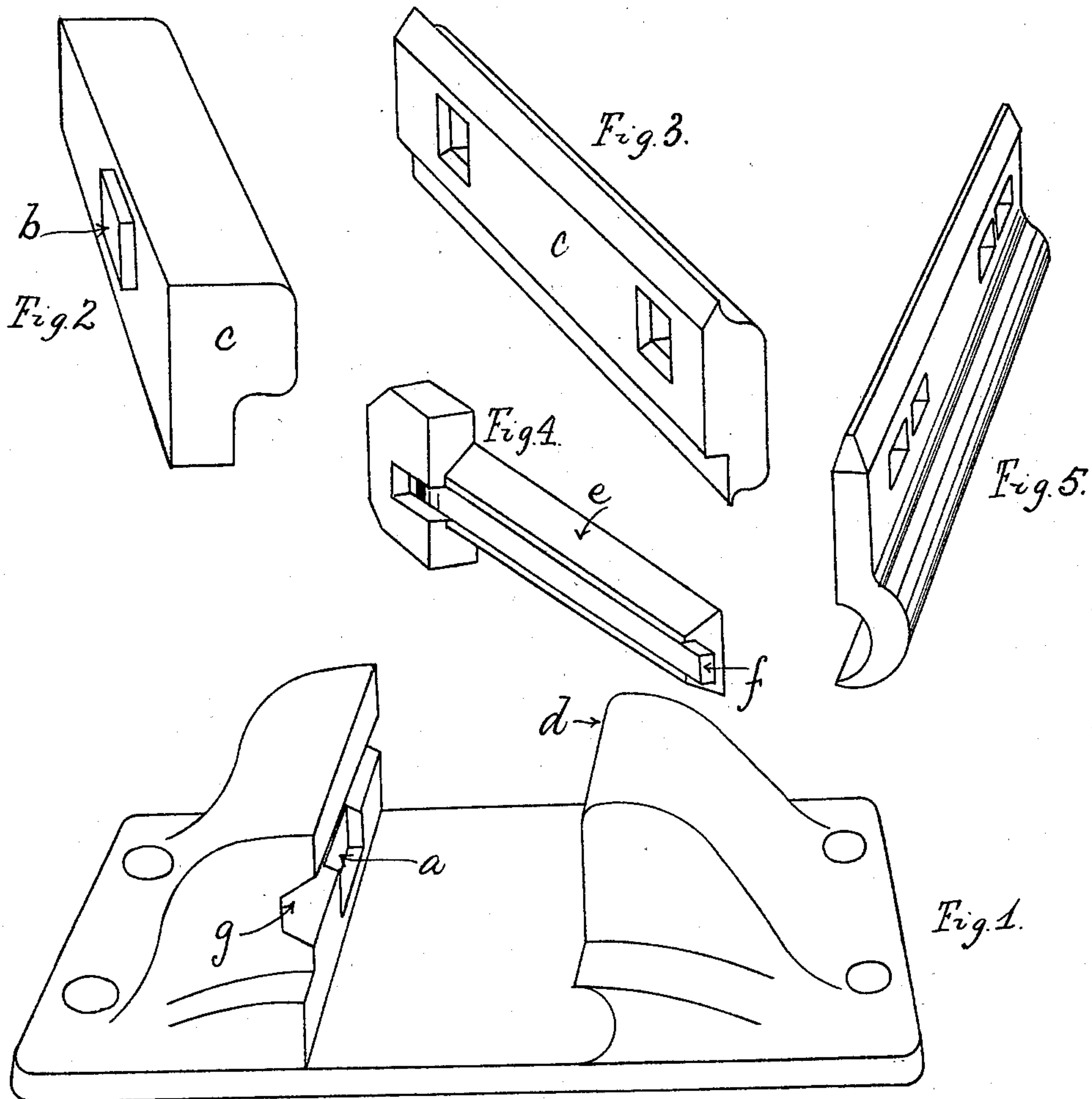
Patented Aug. 30, 1898.

G. F. MARTIN.
RAIL AND JOINT THEREFOR.

(Application filed Oct. 4, 1897.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses.

{ Benjamin Clark.
{ Cecil Ford.

Inventor
George Frederick Martin.
Per E. Eaton.
His Attorney.

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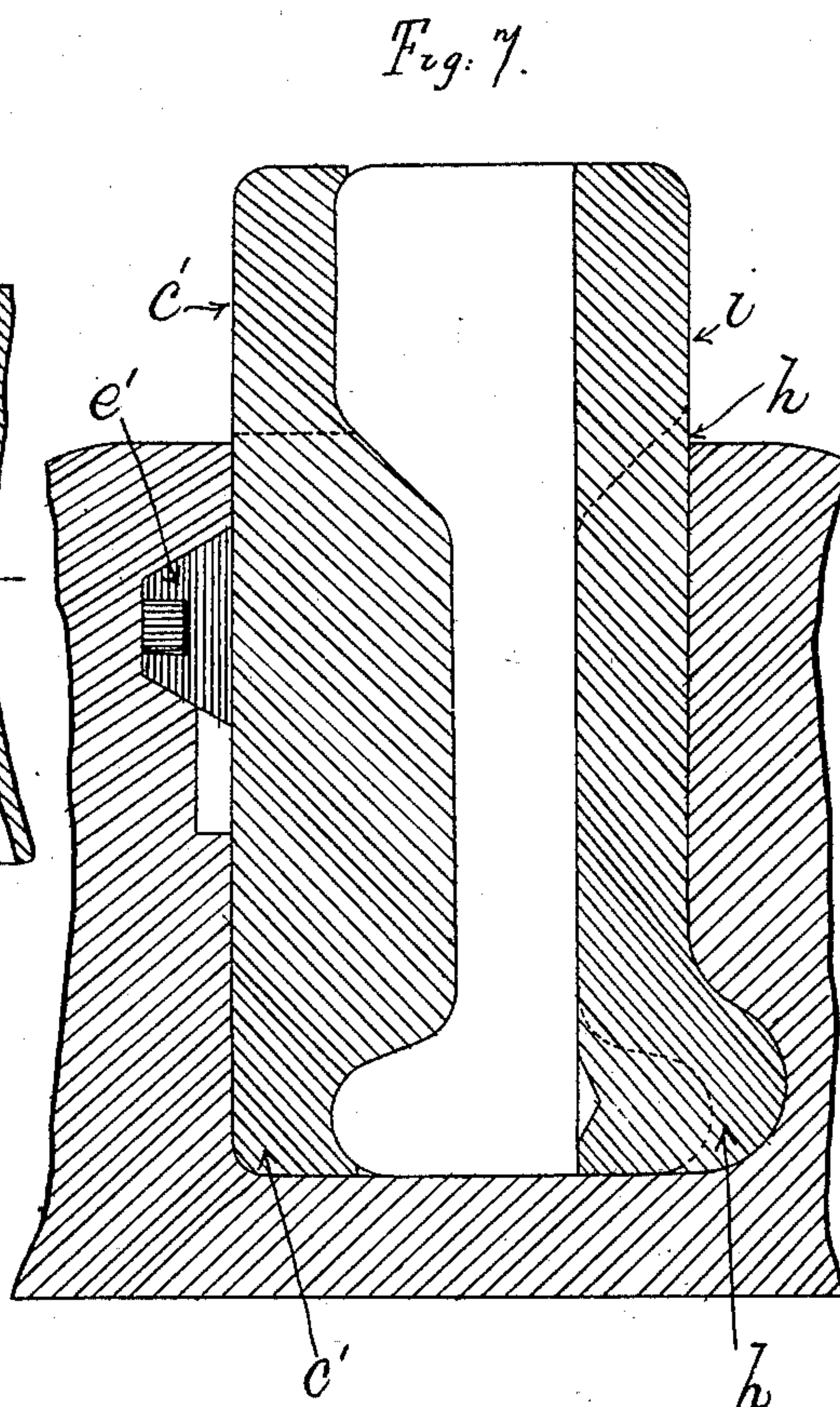
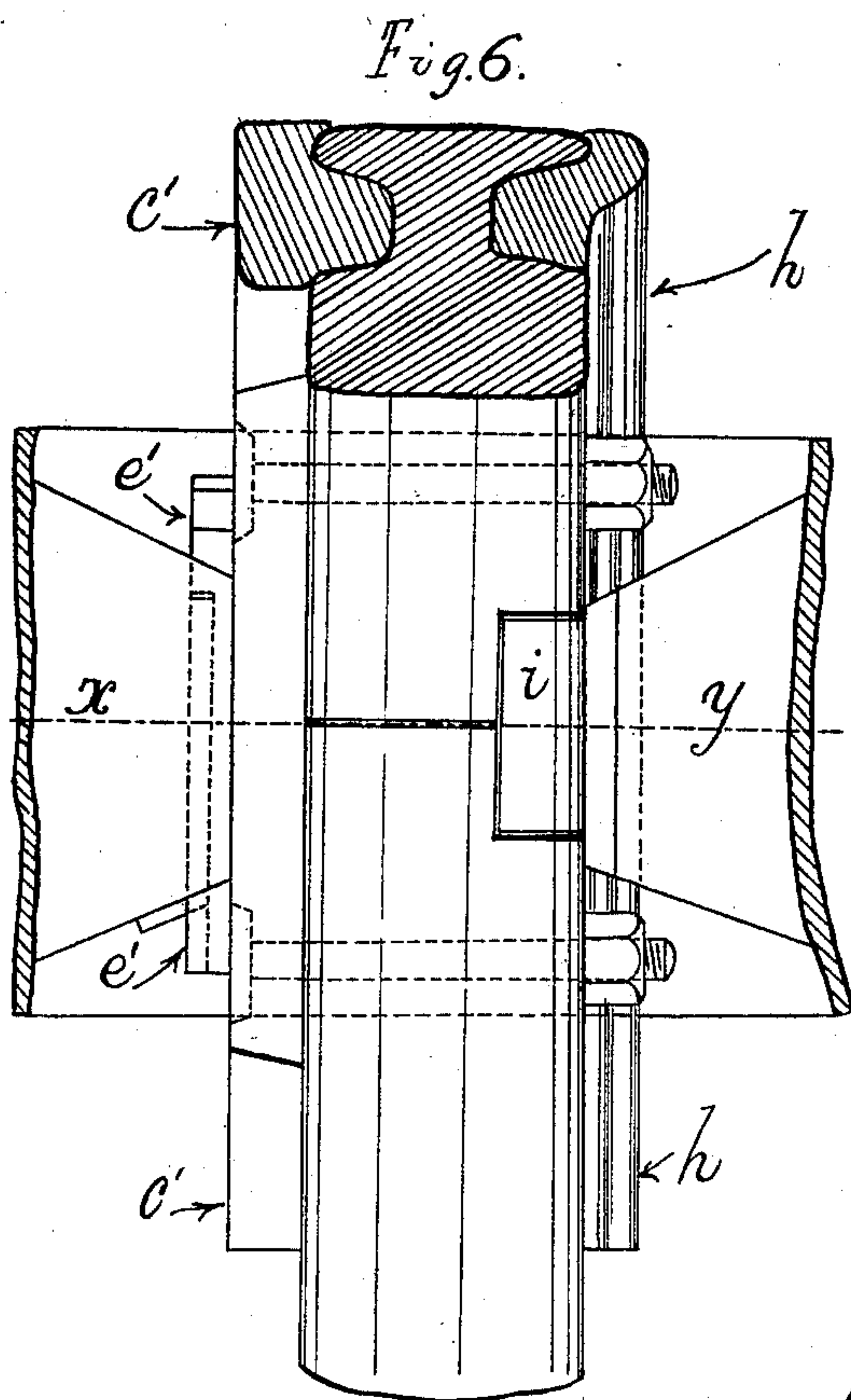
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2 Sheets—Sheet 2.



Witnesses
{ Benjamin Clark
 Cecil Ford.

Inventor
George Frederick Martin
Per: E. Eaton.
His Attorney.

UNITED STATES PATENT OFFICE.

GEORGE FREDERICK MARTIN, OF EASTLEIGH, ENGLAND.

RAIL AND JOINT THEREFOR.

SPECIFICATION forming part of Letters Patent No. 609,826, dated August 30, 1898.

Application filed October 4, 1897. Serial No. 654,058. (No model.)

To all whom it may concern:

Be it known that I, GEORGE FREDERICK MARTIN, a subject of the Queen of Great Britain, and a resident of Eastleigh, in the county of Hants, England, have invented certain new and useful Improvements in Rails and Joints Therefor, of which the following is a full, clear, and exact specification.

This invention relates to an improved combined joint and intermediate railway-chair and apparatus for securing the rails thereto, and for purposes of illustration I will now refer to the annexed drawings, in which—

Figure 1 is a perspective view of my improved chair; Fig. 2, a view of locking-piece; Fig. 3, a view of metal piece for insertion between the rail and the chair; Fig. 4, a view of locking-pin; Fig. 5, a view of modified form of piece for insertion between the rail and the chair; Fig. 6, a plan view of modified arrangement for connecting the ends of rails together; Fig. 7, a vertical section through line *x y*.

Referring to Fig. 1, the chair is provided with a recess *a*, in which the projection *b* on the locking-piece *c* engages. The rail is carried between the part *d* of the chair and the locking-piece. The wedge-shaped pin *e* is provided with the flexible metal piece *f* and is inserted between the locking-piece and the part *g* of the chair. The metal piece is then bent, so as to prevent the pin from becoming disengaged.

Referring to Fig. 3, the metal piece is inserted between the rail and the chair when required, upon the opposite side of the rail to that upon which the locking-piece is placed, for the purpose of enabling the ends of the rails to be connected together by means of bolts or the like, which pass through the rails and metal piece, thus securing the parts in position.

I sometimes find it convenient in certain positions to employ the modified form shown

in Fig. 5 for the purpose of joining the two ends of the rail together. By this arrangement it will be seen that the ordinary wedges are dispensed with, as the locking-piece cannot become disengaged owing to the engagement of the projection *b* upon the recess in the chair, and by driving the wedge-shaped pin in, as required, the parts will be held in position, and the pin may be secured when driven in by bending the flexible metal piece.

Referring to Figs. 6 and 7, the ends of the rails are cut, as shown, and the piece *h* is provided with a projection *i*, which fits into a recess or slot in the ends of the rails. The locking-piece *c'* is secured, as before, by means of the wedge-shaped pin *e'*. The projecting part *i* upon the piece *h* prevents the shock or jar which occurs when a train or the like is passing over the ends of the rails. Although for purposes of illustration I have shown this particular arrangement of parts, it will be readily understood that there may be slight modifications in the shape of such parts without departing from the object of my invention.

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

In means for securing rails and chairs: in combination a locking-piece having a projection which engages in a recess in the chair; a wedge-shaped pin having a strip of flexible material which is driven between the locking-piece and the chair; said strip of flexible material being bent so as to secure the pin in the desired position.

In testimony that I claim the foregoing I have hereunto set my hand this 10th day of April, 1897.

GEORGE FREDERICK MARTIN.

Witnesses:

JAMES FLEMING,

PERCY R. JOLDRINE.