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H. A. STREETER.
METAL CLIP FOR UNITING METAL BEAMS.
APPLICATION FILED NOV. 3, 1905.

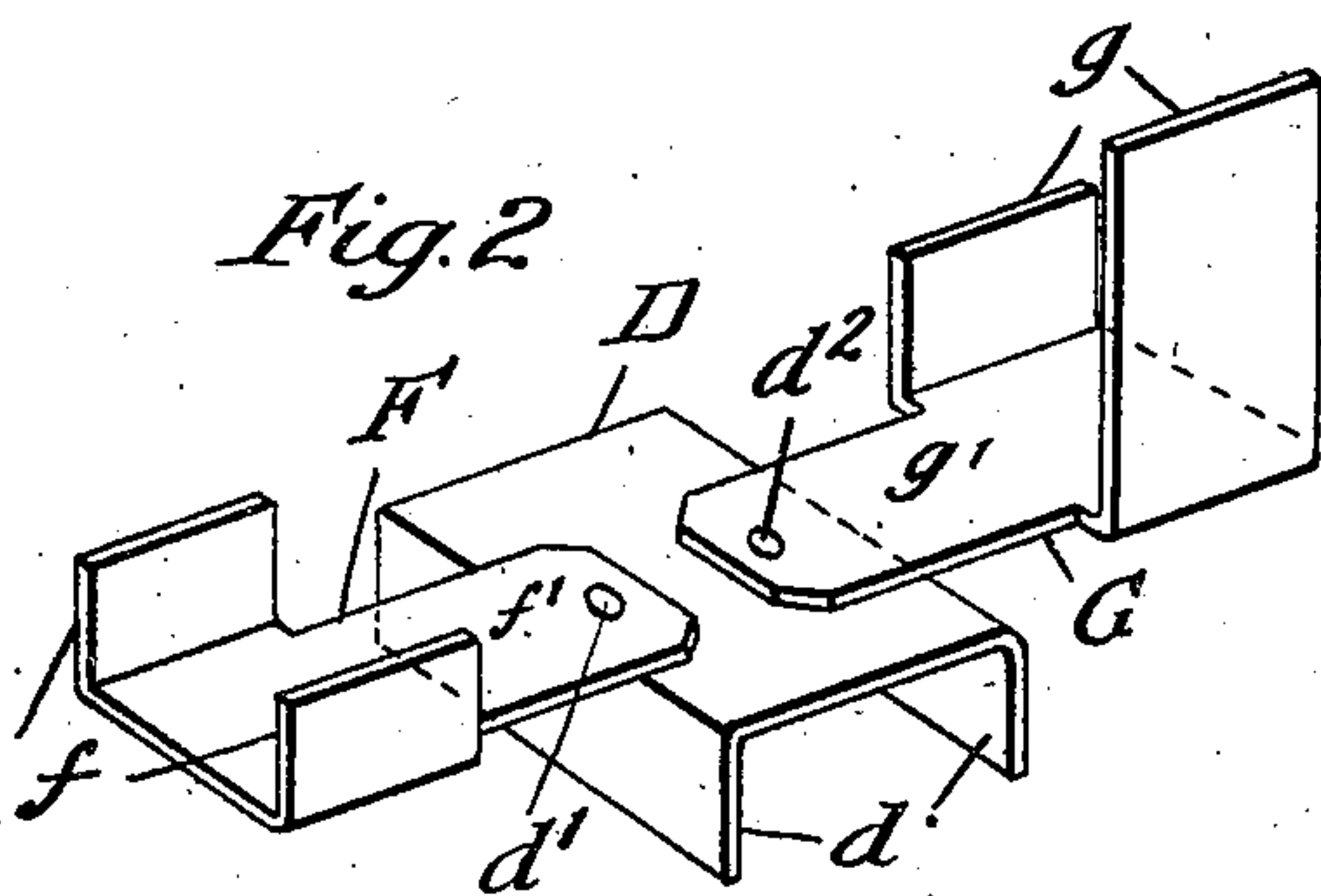
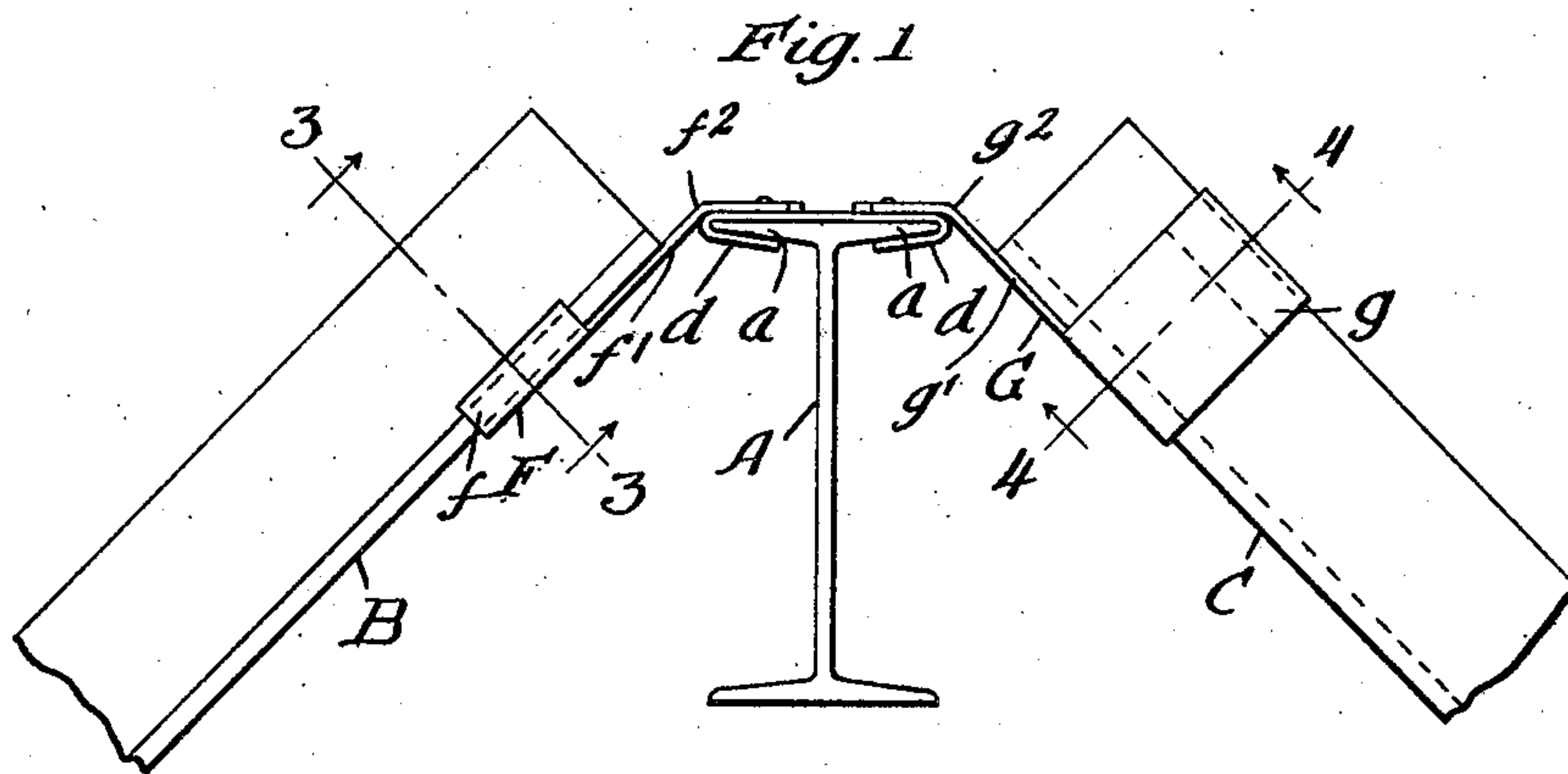


Fig. 3

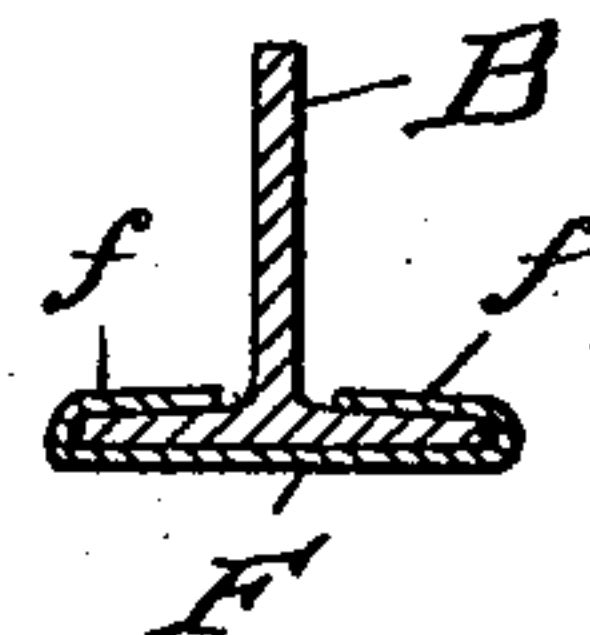


Fig. 4

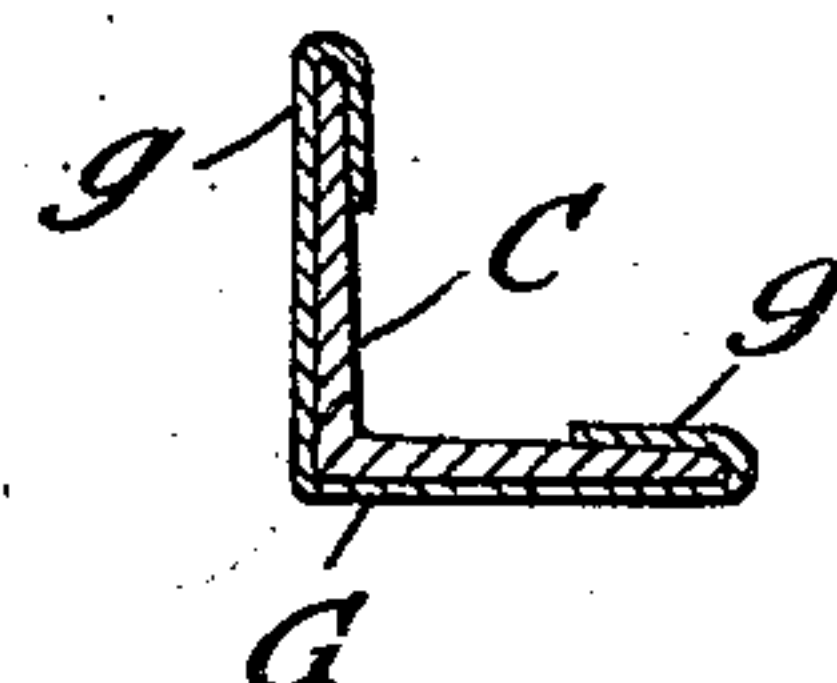


Fig. 5

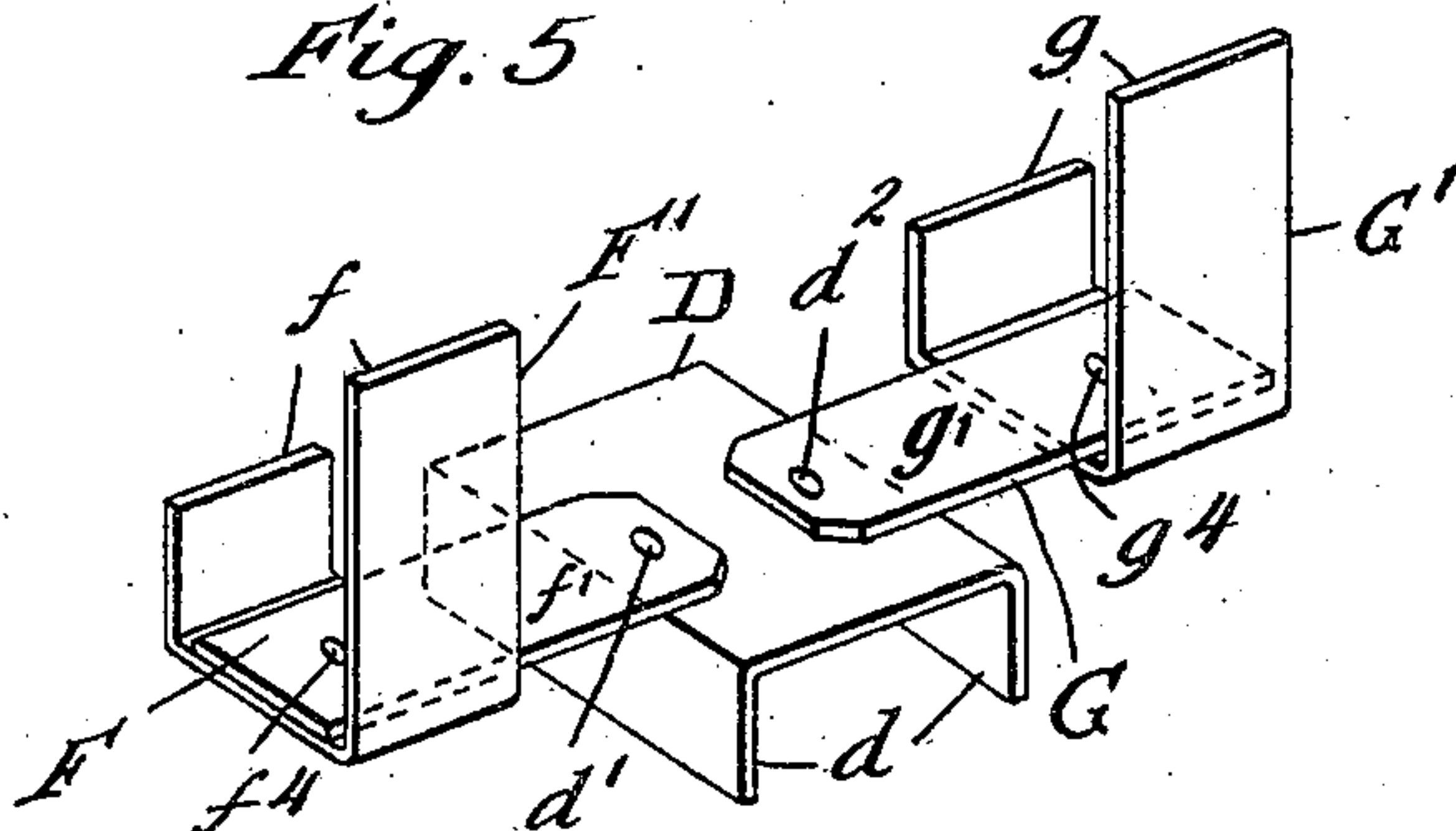
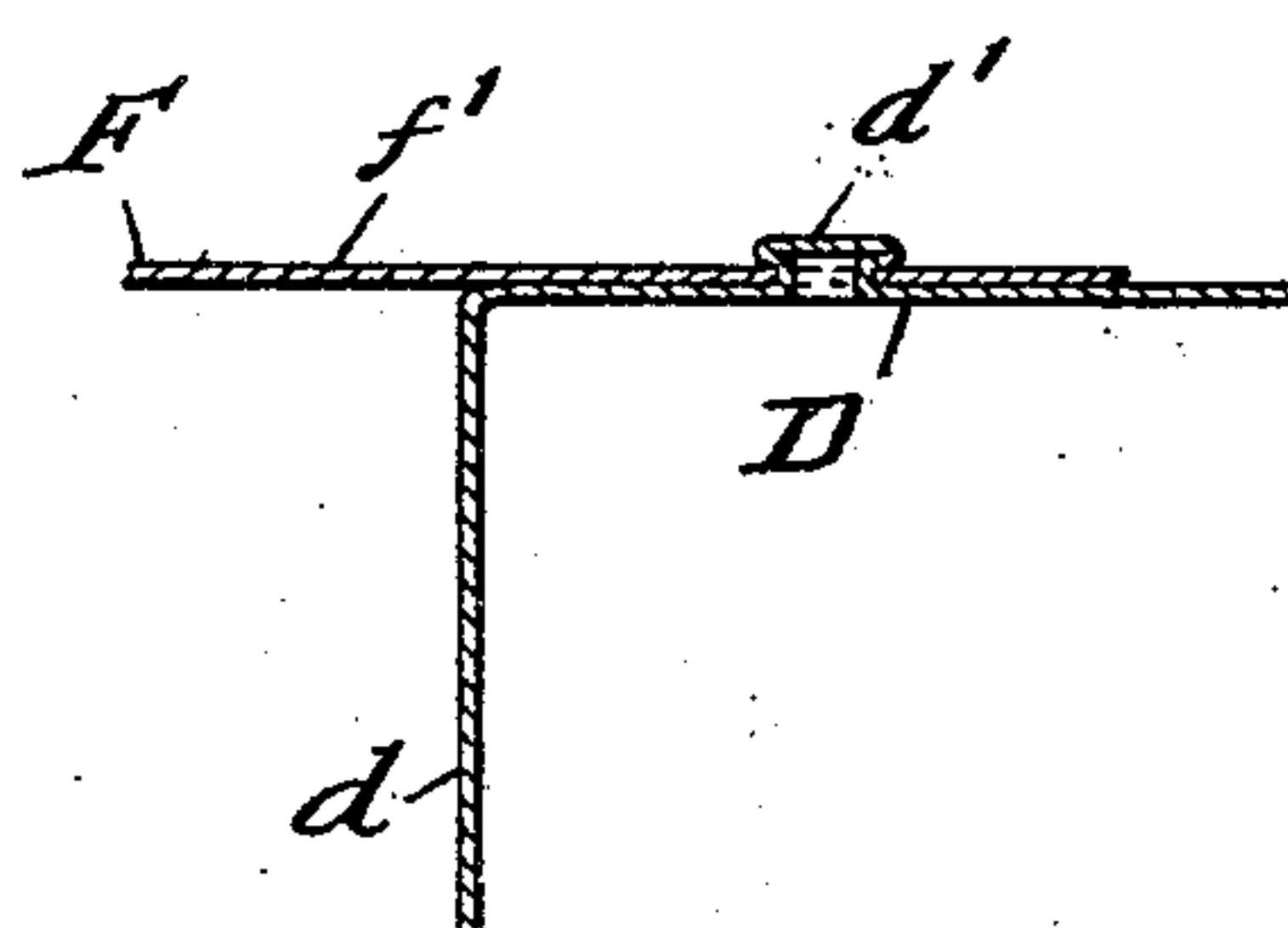


Fig. 6



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METAL CLIP FOR UNITING METAL BEAMS.

No 810,819.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HERBERT A. STREETER, a citizen of the United States, residing in Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Metal Clips for Uniting Metal Beams, of which the following is a specification.

My invention relates to improvements in sheet steel or metal clips for securing together or suspending one from another metal beams at angles to each other.

The object of my invention is to provide a sheet-metal clip of a simple, strong, efficient, and durable construction by means of which metal beams or bars in buildings or other structures may be secured together or suspended one from another at any required angles to each other and which may be quickly and conveniently applied.

My invention consists in the means I employ to practically accomplish this object or result—that is to say, it consists in a compound or composite sheet-metal clip comprising in coöperative combination a main clip member having a pair of flanges adapted to be bent or furnished with folds for securing the same to one metal beam and a plurality of supplemental sheet-metal clip members pivotally connected to said main clip member and each having flanges adapted to be bent or folded to secure the same to metal beams extending at angles to the beam to which the main clip member is secured, the supplemental clip members also having bendable shank portions, so that the supplemental beams to which the supplemental clip members are secured may extend not only at any angle desired in a parallel plane, but also at any angle desired in planes at an angle to the main clip member or to the beam to which it is secured.

My invention also consists in the novel construction of parts and devices and in the novel combinations of parts and devices herein shown and described.

In the accompanying drawings, forming a part of this specification, Figure 1 is a front elevation of a combined clip embodying my invention, showing the same as applied to three metal beams extending at angles to each other and in different planes. Fig. 2 is a perspective view of the clip. Figs. 3 and 4 are sections on lines 3-3 and 4-4 of Fig. 1, and Fig. 5 illustrates a modified construction. Fig. 6 shows a further modification.

In the drawings, A, B, and C represent

metal beams of a building or other structure extending at angles to each other and in different planes.

D is the main member of my combined sheet-metal clip, the same being preferably formed of sheet-steel and provided with flanges *dd*, adapted to be bent or folded about the flange *a* of the metal beam A for rigidly securing the clip thereto. F G are supplemental clip members, also preferably of sheet-steel, having flanges *ff* and *gg*, which are bent or folded about the beams or bars B C to secure these supplemental clip members thereto. The supplemental clip members F G are pivotally secured to the main clip member D by rivets *d' d'*. The supplemental clip members F G each have a flat or shank bendable portion *f' g'* to adapt these supplemental clip members to have bends *f'' g''* to be formed therein, as may be required in cases where the supplemental beams or bars B C extend not only at an angle to the main beam A, but also in planes which are at an angle to the plane of the main clip D and the beam A secured thereto.

In some cases, as illustrated in Fig. 5, I form the bendable flanges *ff* and *gg* of the supplemental clips F G in separate pieces *F' G'* instead of integral with the clips F G, and in this modified construction the parts *F F'* and *G G'* are rigidly and firmly secured together by rivets *f'' g''*.

By means of my combined sheet-metal clips I am enabled to readily and conveniently secure together meeting beams or bars at any required angles to each other and in any required planes.

Instead of using separate rivets *d' d'* for pivotally connecting the supplemental clip members F G with the main clip member D the pivot or connection may be formed integral with one or the other of the connected members by providing the same with an integral boss or bur, which is inserted through the opening in the other part and upset after the manner of an eyelet, as illustrated in Fig. 6.

I claim—

1. The combination with meeting beams or members A, B C extending at angles to each other and in different planes, of a composite sheet-metal clip for securing said beams together and comprising a main clip member D having foldable flanges *dd* for securing the same to one of said beams, and supplemental clip members F G pivotally secured to said main clip member and having foldable flanges

ff and *gg* for securing the same to the beams or bars, and provided also with bendable shank portions *f'g'* to enable said supplemental clips F G to extend in different planes and different angles as required, substantially as specified.

2. The combination with meeting beams or members extending at an angle to each other and in different planes, of a composite clip for securing said beams together, comprising a main member D having folding flanges *d d* and a supplemental member F pivotally connected to said main member and having folding flanges *ff* substantially as specified.

3. The combination with meeting beams or members extending at an angle to each other and in different planes, of a composite clip for securing said beams together, comprising a main member D having folding flanges *d d* and a supplemental member F pivotally connected to said main member and having folding flanges *ff*, said supplemental clip member F having a bendable shank portion *f'* to adapt the same to extend

in a different plane as well as at an angle to the main clip D, substantially as specified.

4. The composite clip for securing metal beams or bars together, comprising a main member having folding flanges and a supplemental member pivotally connected to said main member and having folding flanges, substantially as specified.

5. The composite clip for securing metal beams or bars together, comprising a main member having folding flanges and a supplemental member pivotally connected to said main member and having folding flanges, said supplemental member having a bendable shank portion, substantially as specified.

6. The composite clip for securing metal beams or bars together, comprising a main member having folding flanges and two supplemental members pivotally connected to said main member and provided each with folding flanges, substantially as specified.

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