

(No Model.)

2 Sheets—Sheet 1.

H. GLASS.
IRON STRUCTURE.

No. 553,028.

Patented Jan. 14, 1896.

Fig. 4.

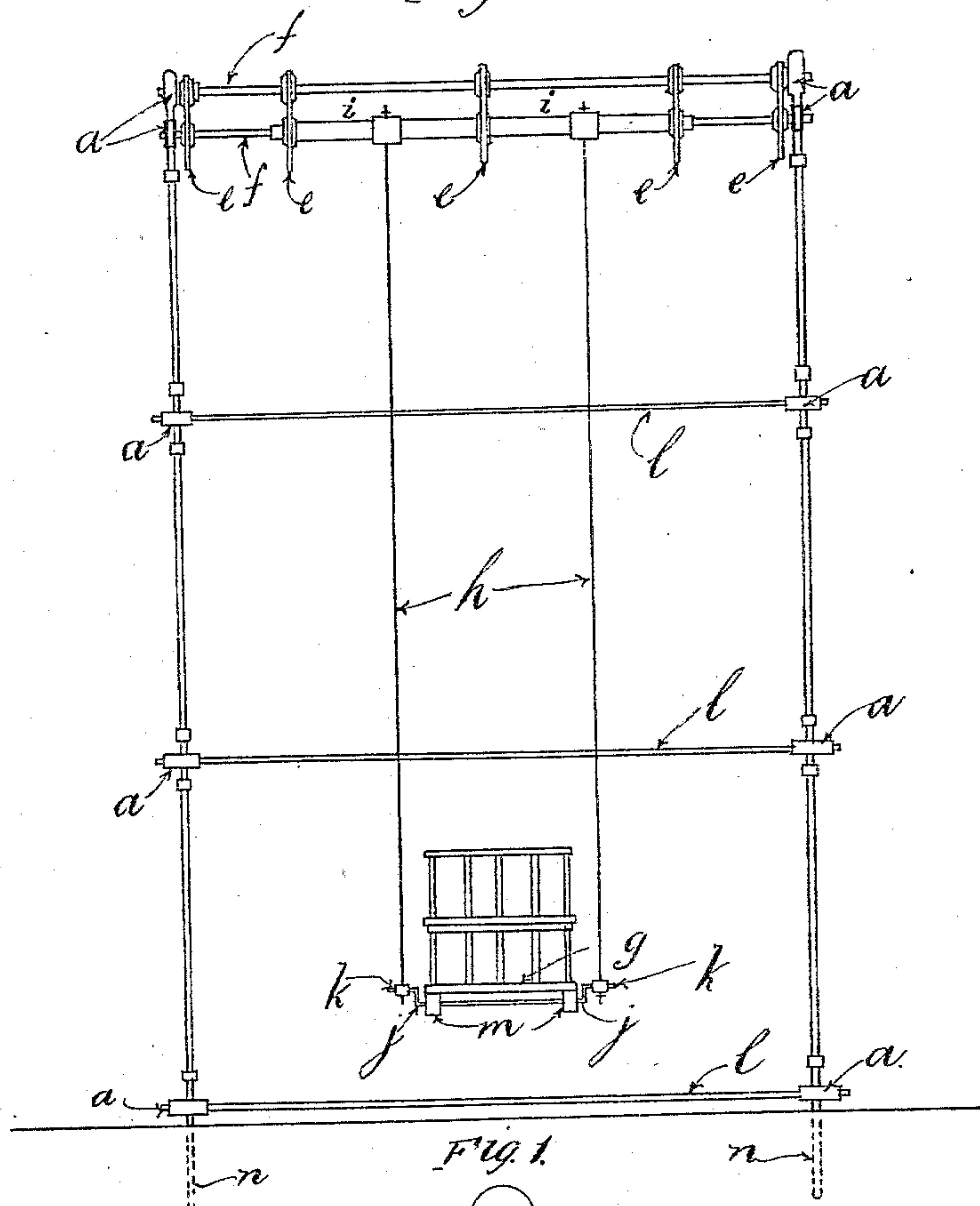


Fig. 1.

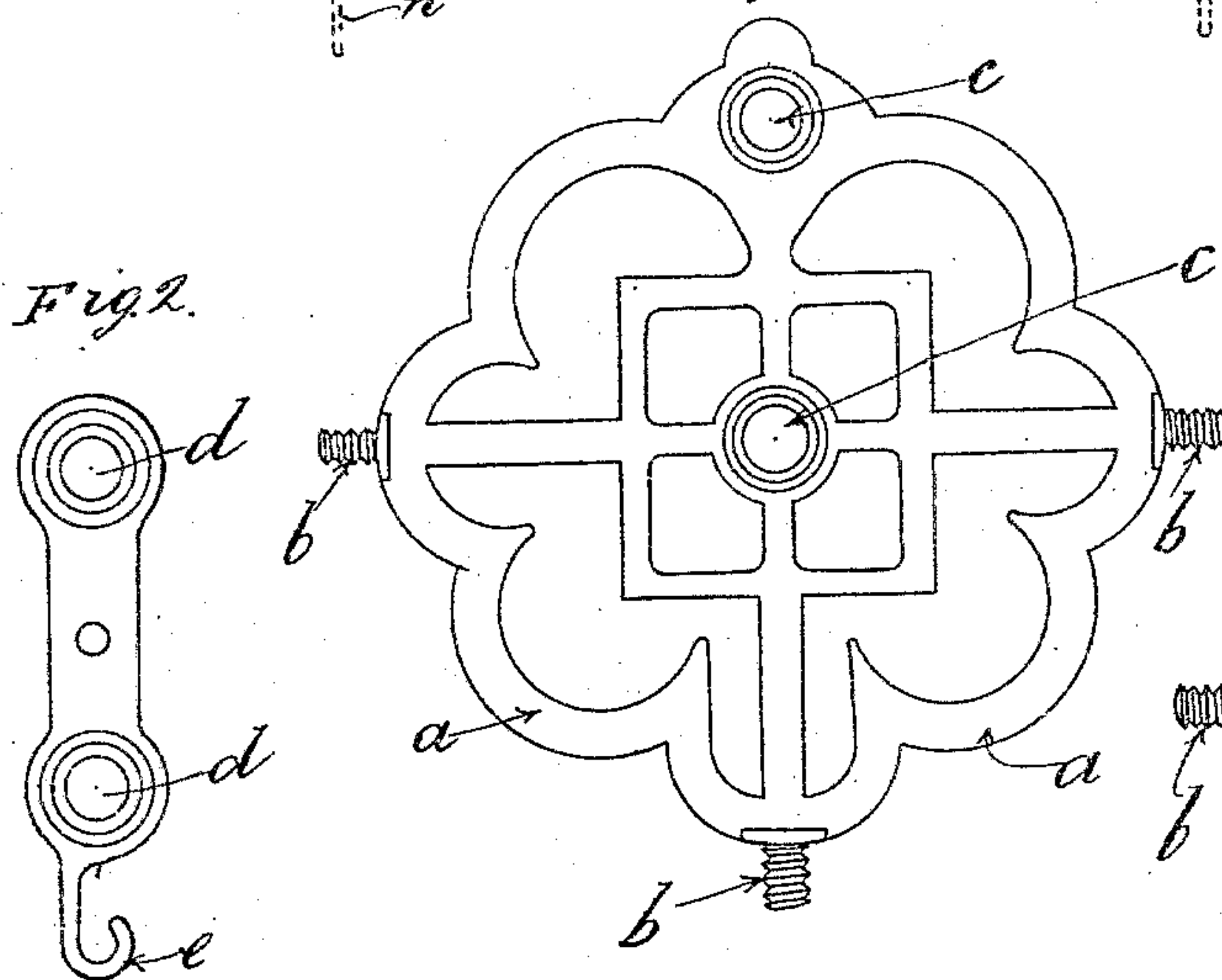
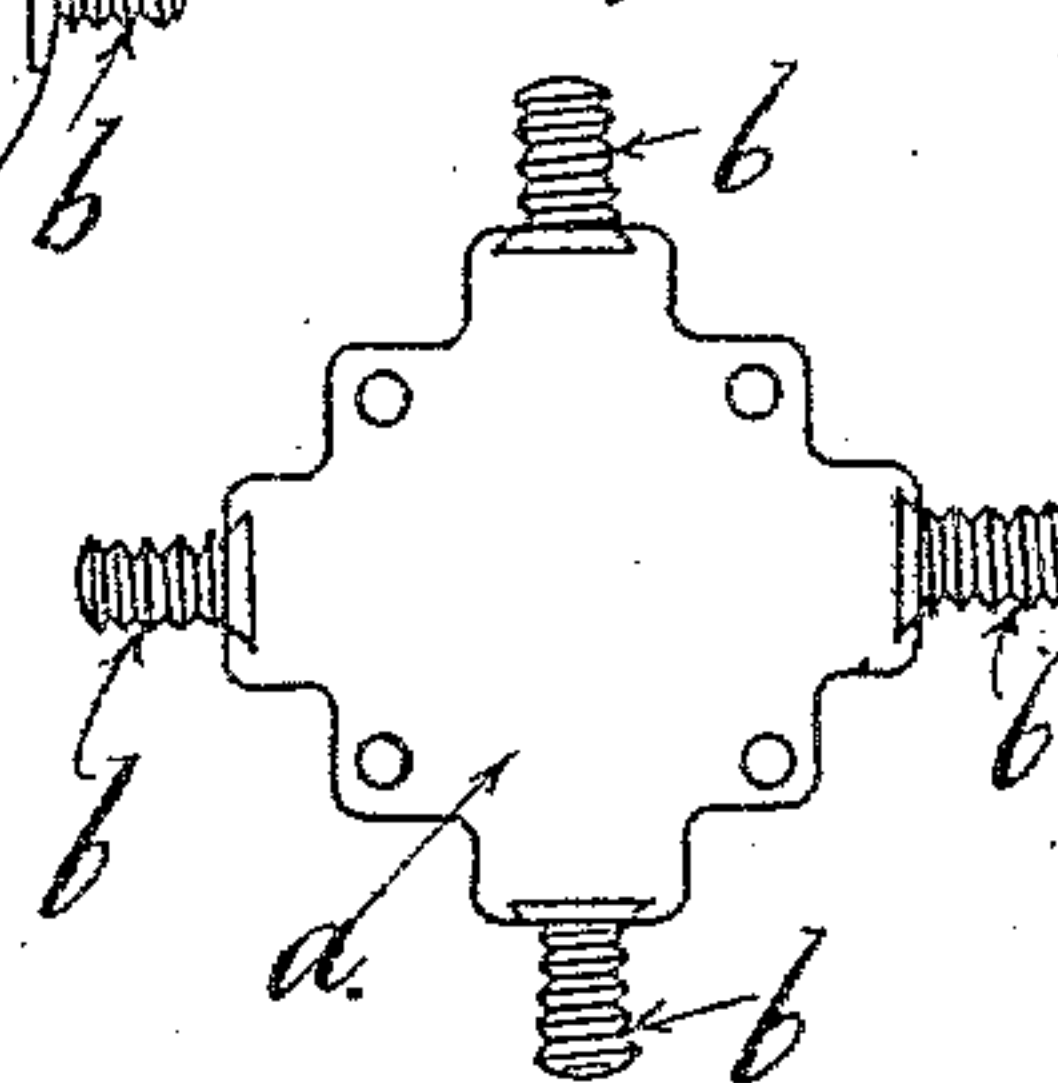


Fig. 2.

Fig. 3.



Witnesses
Benjamin Clark
James Fleming.

Inventor.
Henry Glass.
per E. Eaton
His attorney

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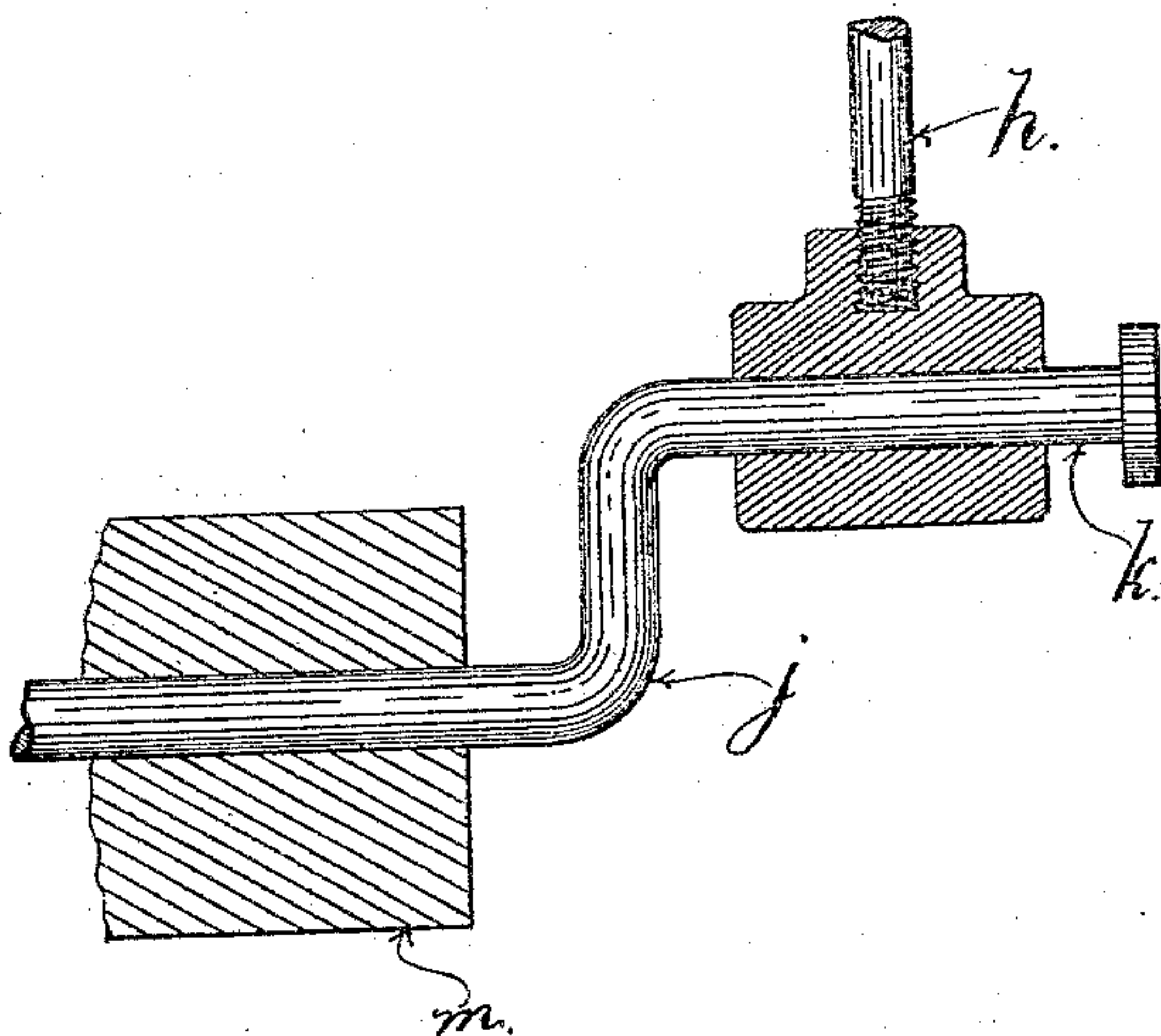
2 Sheets—Sheet 2.

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Fig. 5.



Witnesses
Benjamin Clark.
Horace Yellner

Inventor.
Henry Glass
per E. Eaton
His Attorney.

UNITED STATES PATENT OFFICE.

HENRY GLASS, OF LONDON, ENGLAND.

IRON STRUCTURE.

SPECIFICATION forming part of Letters Patent No. 553,028, dated January 14, 1896.

Application filed June 7, 1894. Renewed December 16, 1895. Serial No. 572,357. (No model.) Patented in England September 14, 1893, No. 17,306.

To all whom it may concern:

Be it known that I, HENRY GLASS, a subject of the Queen of Great Britain, and a resident of Hanwell, London, in the county of Middlesex, England, have invented certain new and useful Improvements in Iron Frameworks or Erections, (for which I have applied for a patent in Great Britain, No. 17,306, dated September 14, 1893, now under application,) of which the following is a full, clear, and exact specification.

This invention relates to iron structures for erections, the object being to provide a structure or framing which can be readily erected and extended or reduced in size, as desired.

The improvement consists of the novel features which will be hereinafter more fully described and claimed, and which are shown in the accompanying drawings, in which—

Figure 1 is a side elevation of my connecting-piece having an ornamental shape, with three screw-connectors; Fig. 2, a side elevation of hook-piece; Fig. 3, a side elevation of a four-cornered connecting-piece; Fig. 4, an end elevation of iron structure supporting a swing attached to the top of the structure; Fig. 5, a sectional elevation to enlarged scale of loose sleeve and cranked levers.

Referring to Fig. 1, *a* is the socket-piece having the screw-threaded ends or bosses *b*. *c c* are holes in which guys or stay-rods may be secured. The shape shown in Fig. 1 is suitable for finishing off the top of a structure or end, the holes or apertures *c* being employed for the reception of rods which form the roof or end of the structure, as the case may be. Referring to Fig. 2, this piece may be employed, as shown in Fig. 4, the rods *ff* passing through same and through the apertures *d*, the hooks *e* being employed for hanging desired objects to. The rods *ff* are in turn secured to the pieces *a*. The swing *g* is attached by guys or rods *h* to the tubes *i*, which are placed upon the rod *f*.

The swing *g* is supported by two cranked levers *j*, one at each end of the swing-seat *g*, working in bearings *m*. The ends of the guys or rods *h* are connected to loose sleeves working on the ends *k* of the rods or levers *j*. By this arrangement the friction of the various parts is reduced to a minimum. The tubes *l* are screwed upon the bosses *b* of the sockets *a*,

and thus the structure is erected, the length of the tubes *l* being adjusted to suit the size of the structure required. *n* are prongs which are attached to the sockets *a*, which are used next the ground, the prongs *n* entering the ground when desired, in order to give stability to the structure.

It will be seen that by the use of the screw-sockets and tubes a structure of the desired height and length can be erected.

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

1. The combination with the socket *a*, having screw threaded bosses, and apertures, of tubes engaging on said bosses, and forming a frame, and guys or rods engaging in the apertures, as set forth.

2. The combination with the socket pieces having the apertures, the guys or rods engaging said apertures, and hook pieces having similar apertures to engage said guys or rods, as set forth.

3. The combination with the sockets having apertures the guys or rods engaging said apertures, of a swing suspended from said rods.

4. The combination with the swing seat, of cranked levers supporting the same, loose sleeves on said cranks, and the guys or ropes suspending the same from the structure.

5. In portable iron structures of the class herein described; in combination; sockets *a* having screw threaded bosses *b*. and apertures; screw threaded tubes engaging on said bosses and forming the frame; guys or rods engaging by means of nuts in the apertures in the bosses; hook pieces having apertures for the passage of the guys or tubes, the hooked end being for the reception of a desired article; cranked levers or rods supporting a swing seat or such like; loose sleeves upon said cranks; guys or ropes attached at one end to the loose sleeves and at the other end to the structure, substantially as described and illustrated.

In testimony that I claim the foregoing I have hereunto set my hand this 14th day of October, 1893.

HENRY GLASS.

Witnesses:

J. STEINING,
E. EATON.