

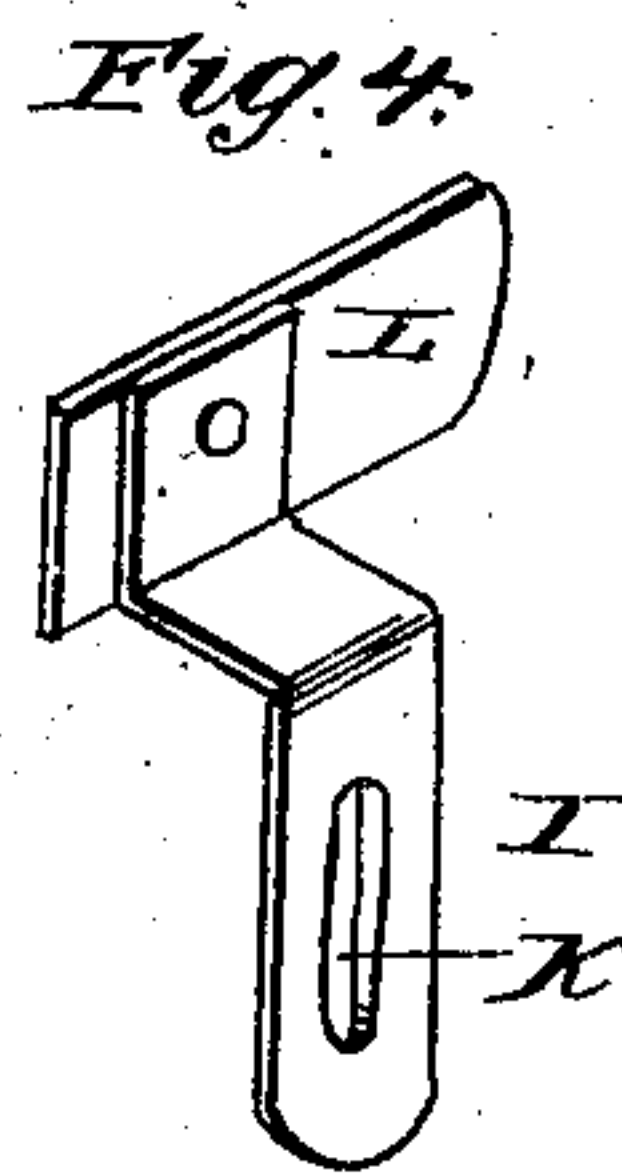
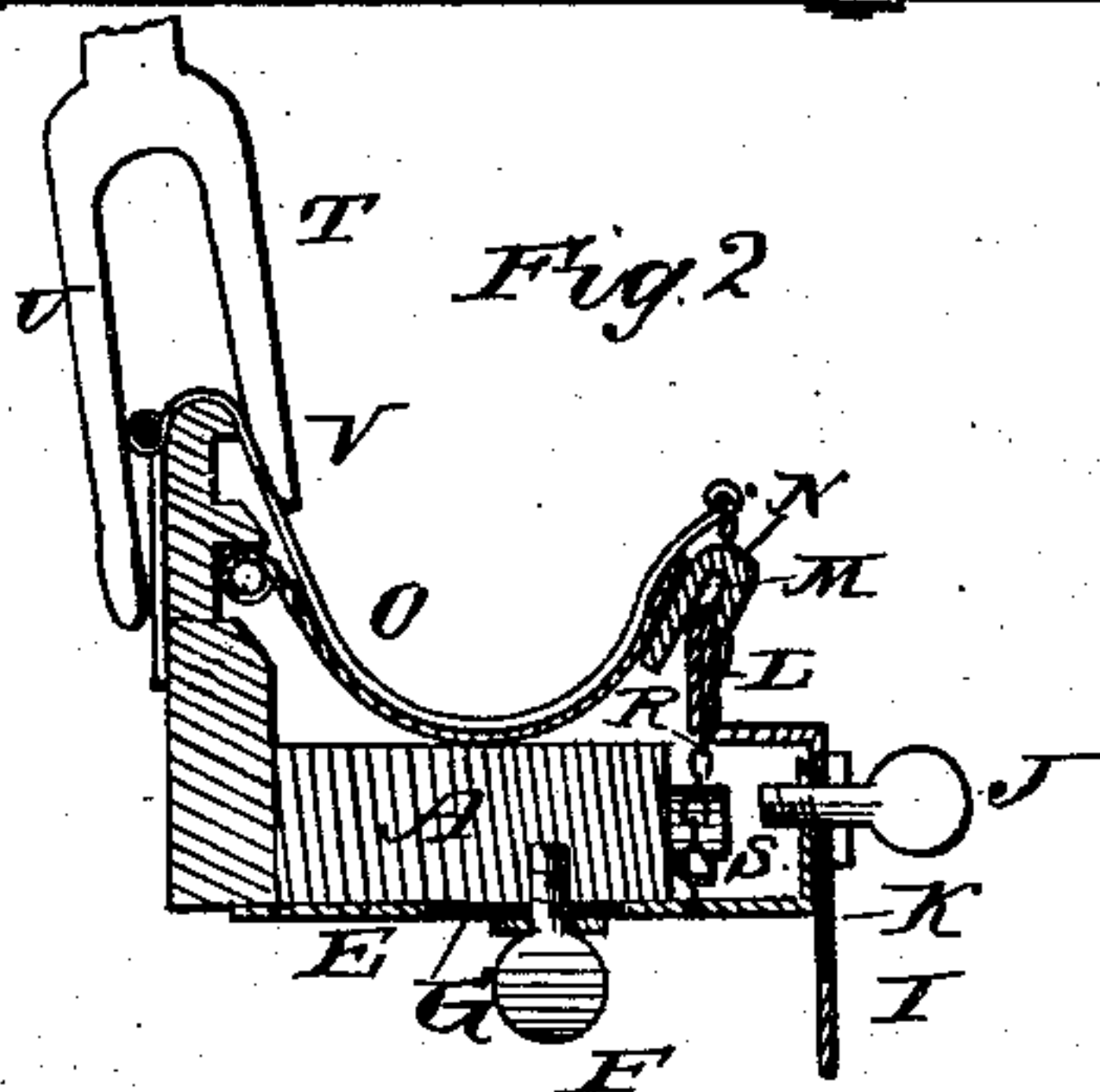
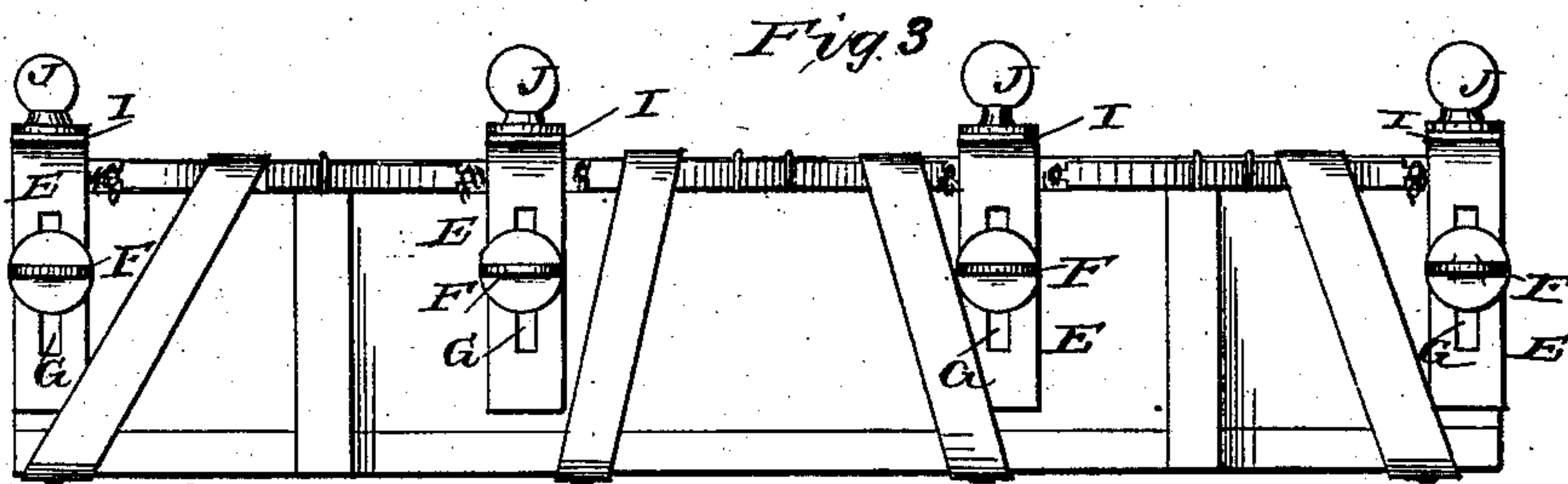
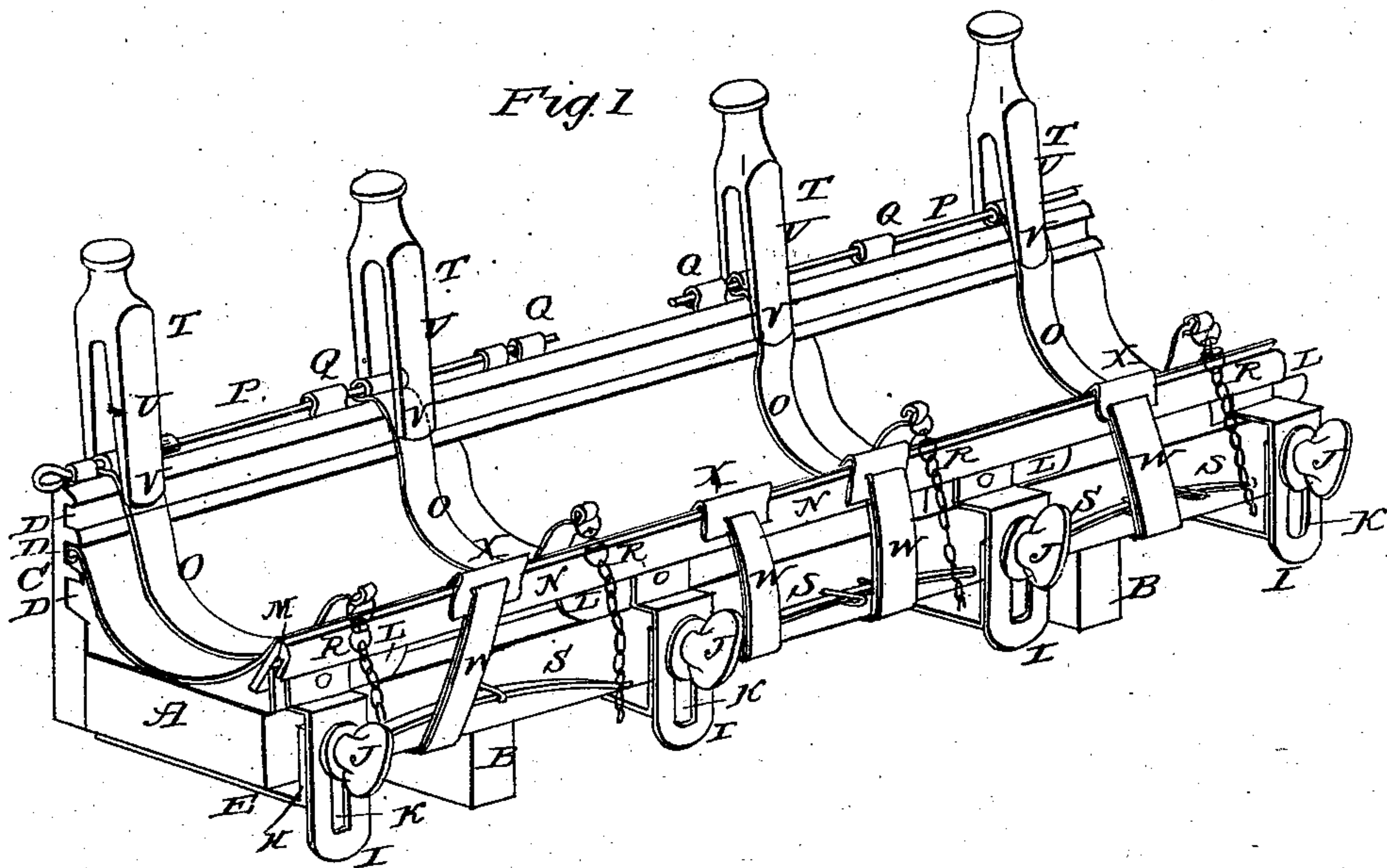
(No Model.)

G. HUTH.

MACHINE FOR MAKING EAVES TROUGHS.

No. 260,481.

Patented July 4, 1882.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

GEORGE HUTH, OF DELTA, OHIO.

## MACHINE FOR MAKING EAVES-TROUGHS.

SPECIFICATION forming part of Letters Patent No. 260,481, dated July 4, 1882.

Application filed May 31, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE HUTH, of Delta, in the county of Fulton and State of Ohio, have invented certain new and useful Improvements in Machines for Making Eaves-Troughs; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to machines or devices for forming eaves-troughs, and has for its object to provide a simple, strong, and efficient device.

In the drawings, Figure 1 is a perspective view of the device; Fig. 2, a transverse sectional view; Fig. 3, a bottom plan, and Fig. 4 a detail view of one of the plates for adjusting and supporting the front top rail.

Referring by letter to the drawings, A designates the horizontal bottom piece, which is supported on cross-pieces B B, and has a longitudinal upright back, C, in the inner face of which is formed a series of longitudinal grooves, D, one above the other.

On the under side of bottom A are a number of plates, E, laterally adjustable by means of set-screws F, working in longitudinal slots G in the plates and provided with upturned ends H.

I designates a like number of plates, which are vertically adjustable on ends H by means of set-screws J, working in longitudinal slots K in plates I, their ends passing through plates H, and provided with cross-pieces L at their tops, which enter a longitudinal groove, M, in a longitudinal front rail or strip, N, and support the latter above the bottom A. The rail N may thus be adjusted vertically, laterally, or converging toward the back C at one end when it is desired to form a tapering or converging trough.

O designates suitable downwardly-curved cross plates or pieces, hinged at their rear ends on rods P, passing through straps Q on back C, so as to be laterally adjustable, their front ends being provided with chains or cords R, which extend down outside rail N, and are adapted to be adjusted over the ends of flat bowed springs S, secured on the front of bottom A.

T designates bifurcated pins, the arms of

which, U U, are adapted to be placed over back C, with the curved end V of the shorter arm over plate O, to retain or lock it in position.

W designates the elastic bands or springs secured to bottom A, and having on their end a hook-piece, X, adapted to be hooked over the edge of the trough when the latter is in the device.

In place of the bands W, suitable chains or cords hooked on the ends of springs S may be used.

The operation and advantages of my invention will be readily understood. The turned end, adapted for the front edge of the trough, is adjusted in one of the grooves D, and the metal forming the same curved downwardly, when the plates O are turned down and locked in position. The rod or rail N may be adjusted now to give the trough the desired shape, after which the seams may be soldered up and the trough removed.

I claim and desire to secure by Letters Patent—

1. The combination, with a bottom piece having an upright back provided with one or more grooves in its inner face, of suitable downwardly-curved holding plates or pieces hinged on the back, and a longitudinal front strip, by adjusting which the shape is given to the eaves-trough, as set forth.

2. The combination, with a bottom piece having an upright back provided with one or more longitudinal grooves in its inner face, of suitable downward-curved holding plates or pieces hinged on the back, and provided at their other ends with chains or ropes adapted to be hooked over the ends of flat springs secured on the front of the bottom piece, and a longitudinal front strip adjustable and supported by suitably-arranged adjustable plates to impart the desired shape to the eaves-trough, as set forth.

3. The horizontal bottom piece having laterally-adjustable plates on its under side, provided with upturned outer ends, on which ends are vertically-adjustable supporting-plates having a cross-piece at their tops, which enters a groove on the under-side of a longitudinal adjustable front strip, as set forth.

4. The combination, with the downwardly-curved plate or strip hinged at its rear end to a rod on the back of the device, so as to be lat-

erally adjustable thereon, of a pin having one arm shorter than the other and beveled, which pin is adapted to slip down over the back with its short arm embracing the hinged end of the  
5 curved strip to retain it in position, as set forth.

5. The combination, with the bottom piece, on which the material forming the trough is adapted to rest, and a longitudinal front strip supporting the end or edge of the trough, of  
10 one or more elastic bands, chains, ropes, or springs secured under the bottom, and provided

with hook-pieces on their ends adapted to be passed over the front strip and be hooked over the edge of the trough to secure the same in position, as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

GEORGE HUTH.

Witnesses:

OCTAVIUS WATERS,  
WM. W. WILLIAMS.