

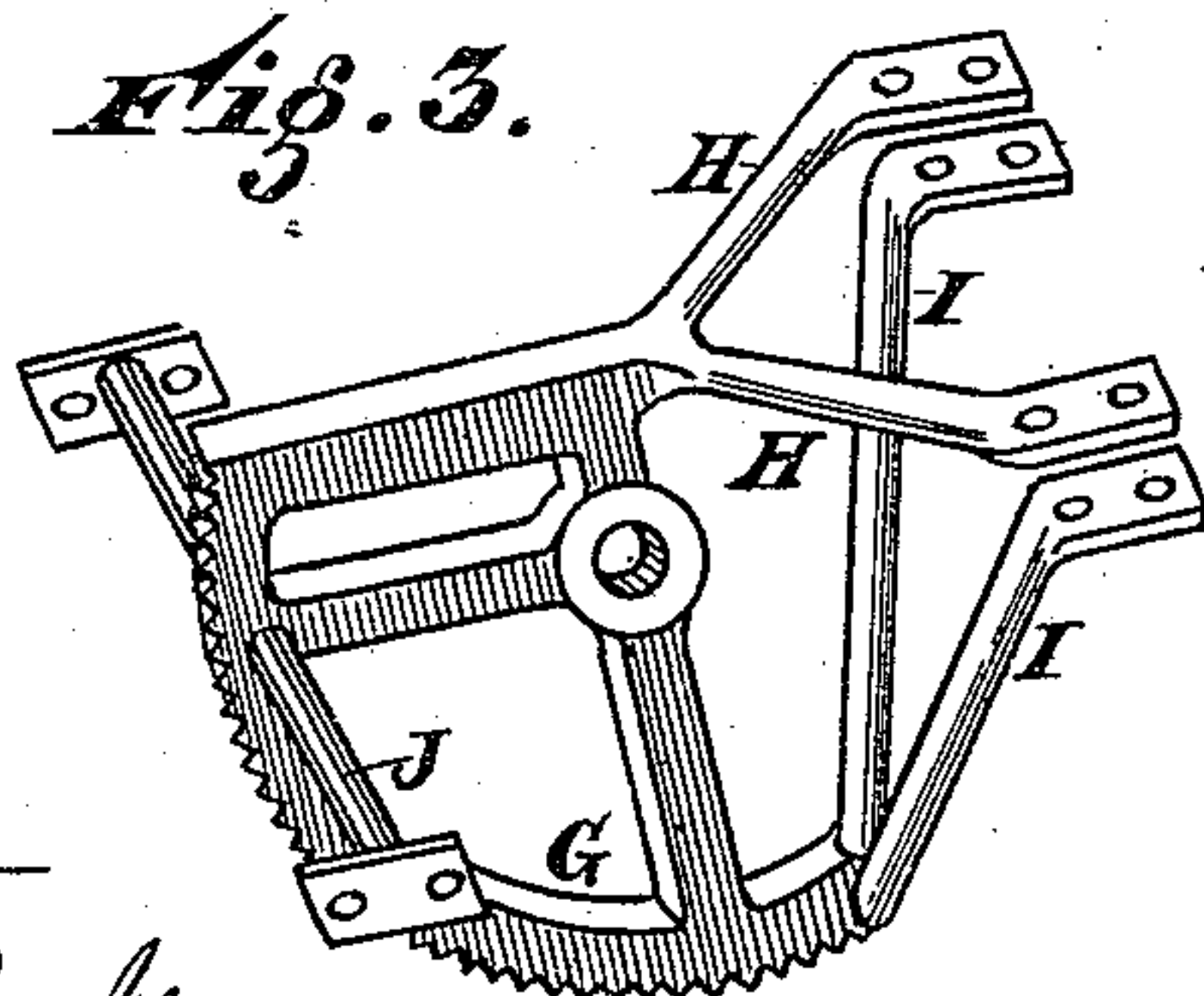
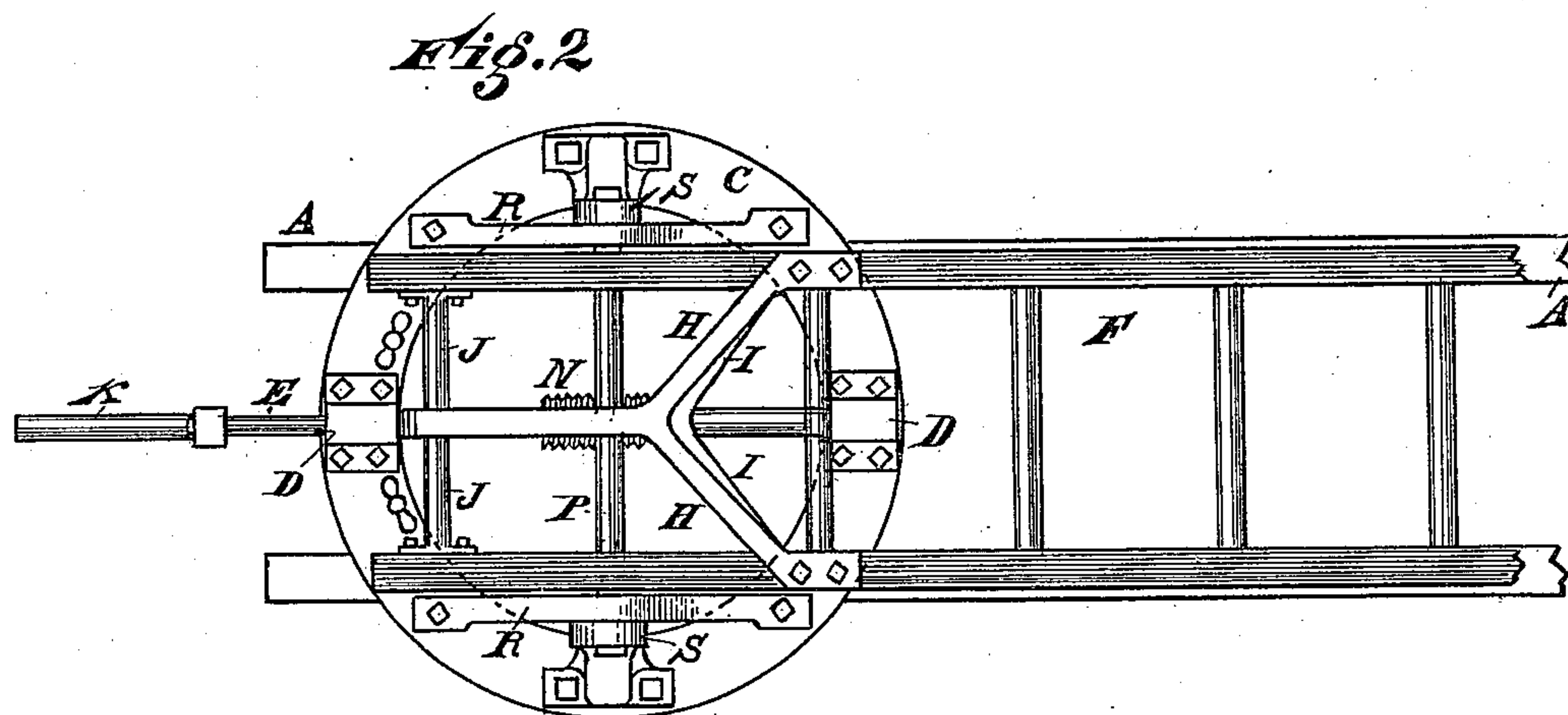
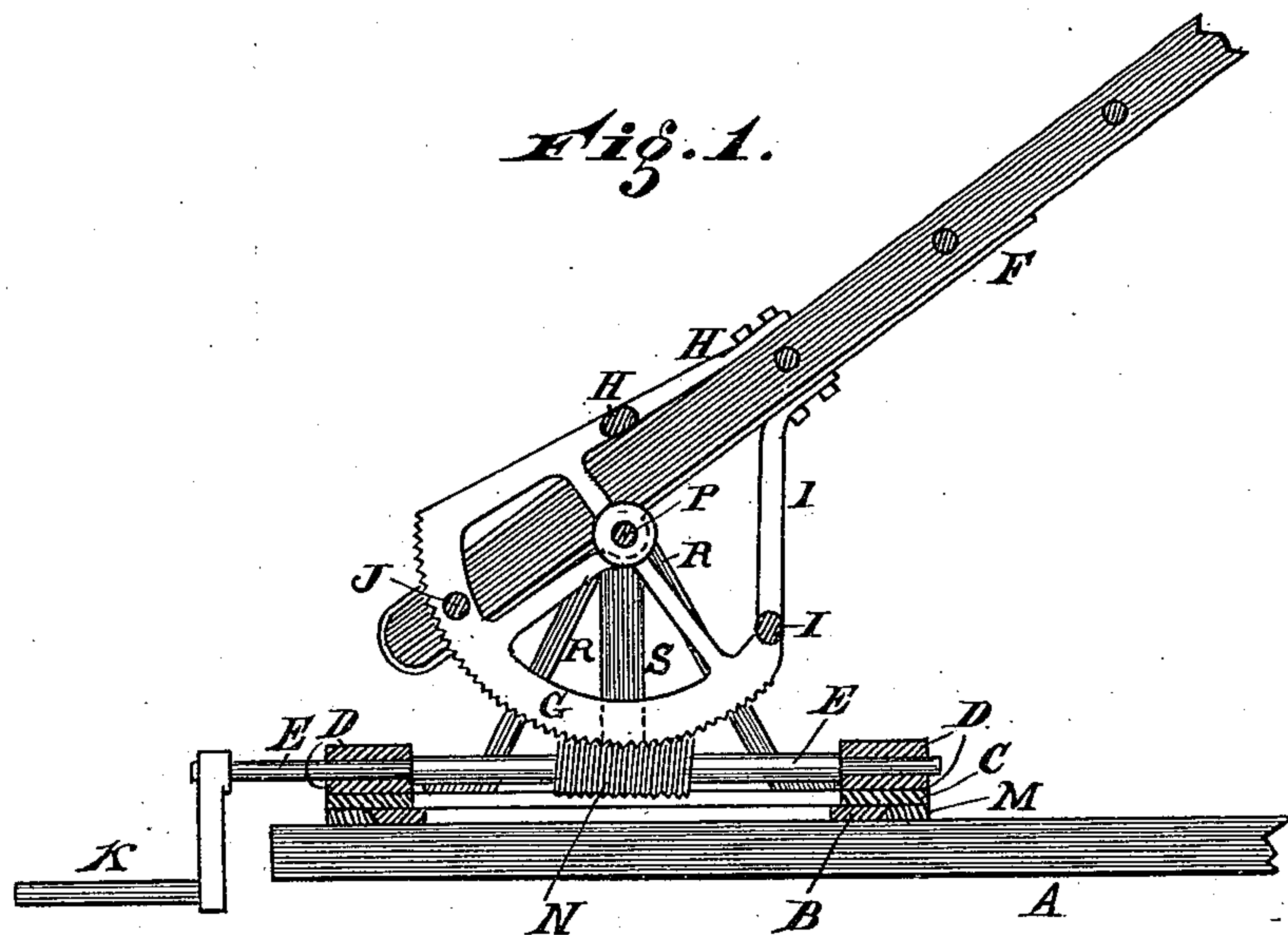
(No Model.)

J. L. POINSETT.

# FIRE LADDER.

No. 354,839.

Patented Dec. 21, 1886.



Attest  
J. Watson Sims.  
J. Simpson Roebuck Jr.

*Inventor*  
*Joseph L. Pinsett*  
*by Wood & Boyd*  
*his Attorneys &c*

# UNITED STATES PATENT OFFICE.

JOSEPH L. POINSETT, OF NEWPORT, KENTUCKY, ASSIGNOR OF ONE-HALF  
TO HORTON & CO., OF CINCINNATI, OHIO.

## FIRE-LADDER.

SPECIFICATION forming part of Letters Patent No. 354,839, dated December 21, 1886.

Application filed February 15, 1886. Serial No. 192,026. (No model.)

*To all whom it may concern:*

Be it known that I, JOSEPH L. POINSETT, a resident of Newport, in the county of Campbell and State of Kentucky, have invented certain  
5 new and useful Improvements in Fire-Ladders, of which the following is a specification.

My invention relates to improvements for elevating, lowering, and sustaining in position the ordinary escape or fire ladder in a better and more secure manner than heretofore known. These objects and advantages are attained by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal vertical section. Fig. 2 is a plan view of the ladder in a horizontal position. Fig. 3 is a perspective view of the sector-wheel and its braces.

A represents the truck or frame upon which the ladder is mounted; B, a stationary disk or  
20 ring secured thereto, beveled on its outer edge so as to seat within a ring, M, inversely beveled on its inner edge, over both of which is a ring, C, secured to the ring M by bolts, forming a turn-table around the ring B, the beveled  
25 edge of which retains the table in its position. This turn-table, however, may be made in any well-known manner.

To the upper side of the turn-table are secured journal-boxes D D, forming bearings for  
30 the shaft E, which is provided with a screw or worm, N, and a crank, K.

F represents a ladder, which may be composed of any number of sections folded and extended in any convenient manner.

35 G is a sector-wheel, securely attached to the lower end of the ladder by brace-arms H I J, and mounted on a shaft, P, journaled in bracket bearings or standards R R S, rising from each side of the revolving disk or turn-  
40 table C. The sector-wheel should be suffi-

ciently great to allow the ladder to be inclined in either direction from the perpendicular, so that when in use its upper end can be removed from danger.

It is obvious that the ladder by this mechanism can be raised or lowered at will by simply turning the crank K in one direction or another.

Having described my invention, what I claim is—

1. The combination of the truck-frame A, the turn-table mounted thereon and provided on its upper side with attached journal-boxes D, the horizontal shaft E, journaled in said boxes and having at its center an attached  
55 worm-wheel, N, the standards R S, rising from the turn-table, the transverse shaft P, mounted in the standards, the sector gear-wheel G, carrying the ladder and mounted on the transverse shaft and engaging the worm-wheel, substantially as described. 60

2. The combination of the truck-frame A, the ring B thereon, the turn-table C, rotating on the ring and provided at opposite sides with attached journal-boxes D, the horizontal  
65 shaft E, journaled in said boxes and having an attached worm-wheel, N, the standards secured to opposite sides of the turn-table, the transverse shaft P, mounted in the standards, the sector gear-wheel G, comprising the brace-  
70 arms H I J and mounted on the transverse shaft, and the latter connected with the brace-arms, substantially as shown and described.

In testimony whereof I have hereunto set my hand.

J. L. POINSETT.

Witnesses:

ROBERT ZAHNER,  
EDWARD BOYD.



Correction in Letters Patent No. 354,839.

It is hereby certified that Letters Patent No. 354,839, granted December 21, 1886, upon the application of Joseph L. Poinsett, of Newport, Kentucky, for an improvement in "Fire Ladders," was erroneously issued to said Poinsett; that said Letters Patent should have been issued to *Joseph L. Poinsett, and Horton & Co., of Cincinnati, Ohio*, said Horton & Co. being assignees of one-half interest; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed, countersigned, and sealed this 28th day of December, A. D. 1886.

[SEAL.]

D. L. HAWKINS,  
*Acting Secretary of the Interior.*

Countersigned :

M. V. MONTGOMERY,  
*Commissioner of Patents.*