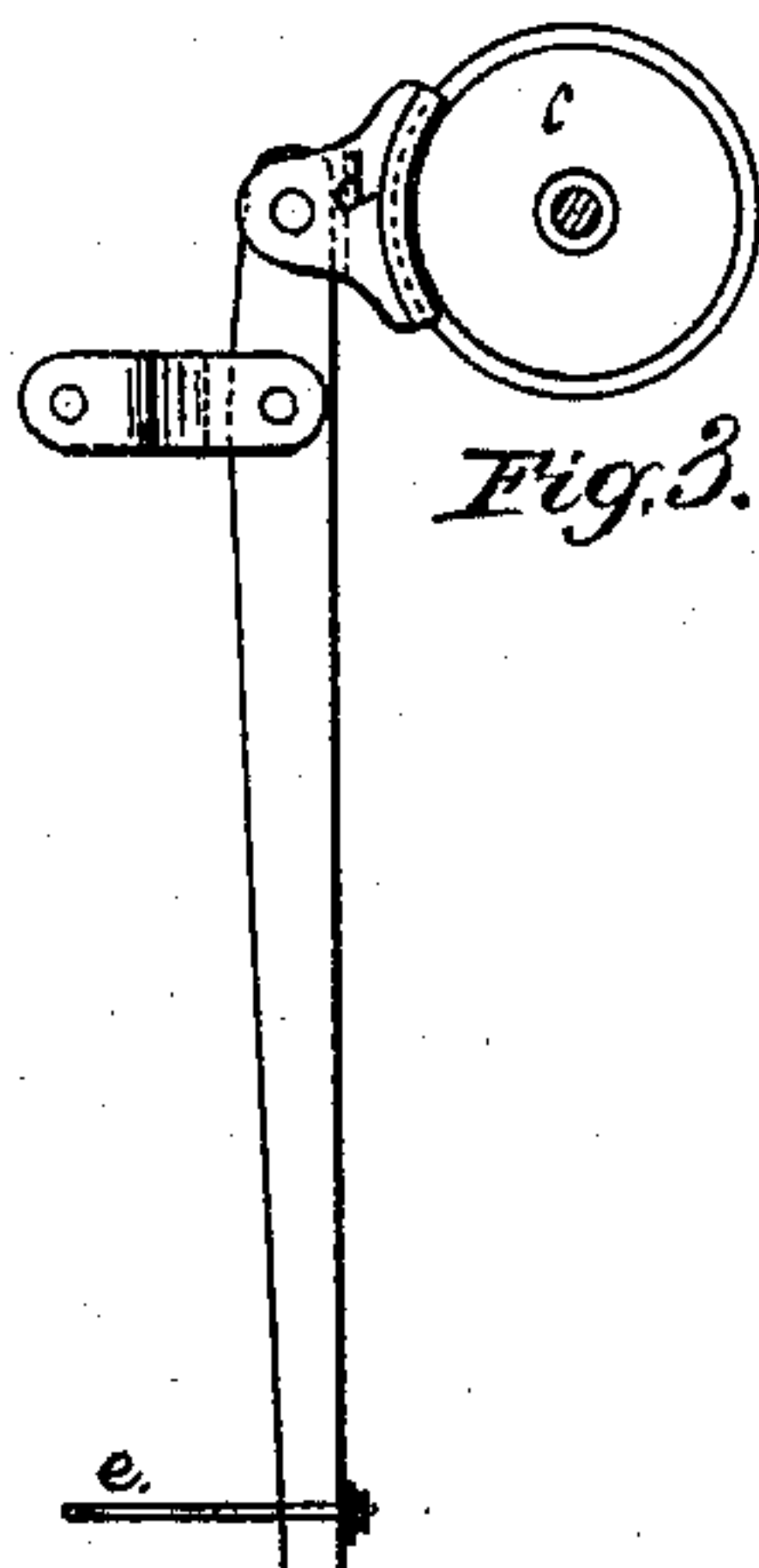
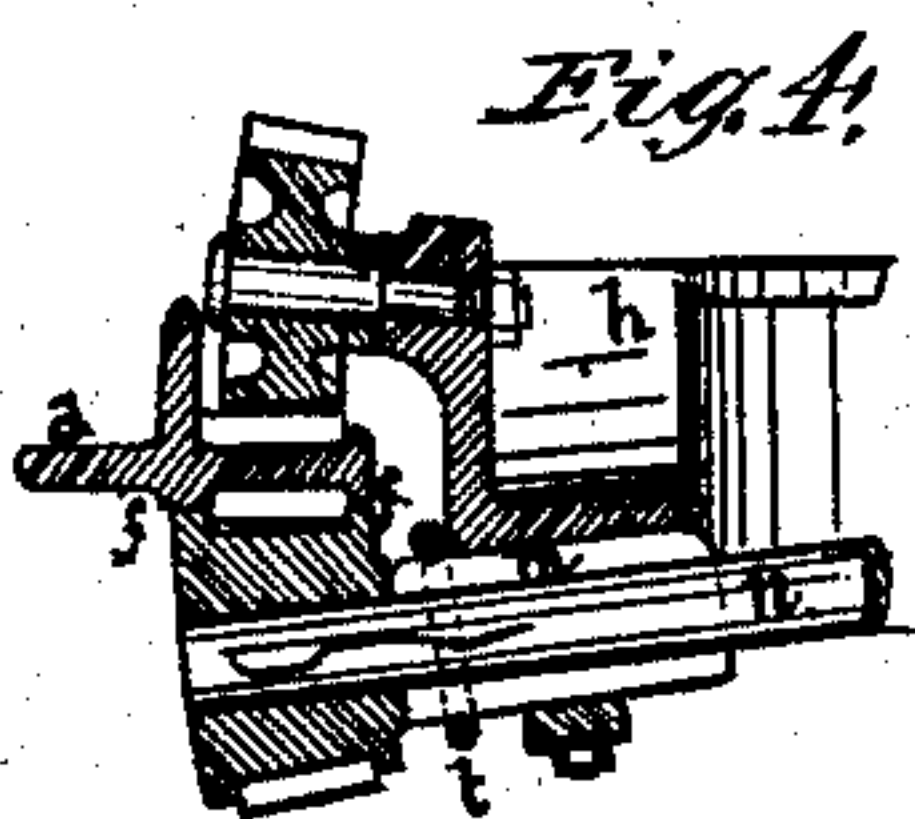
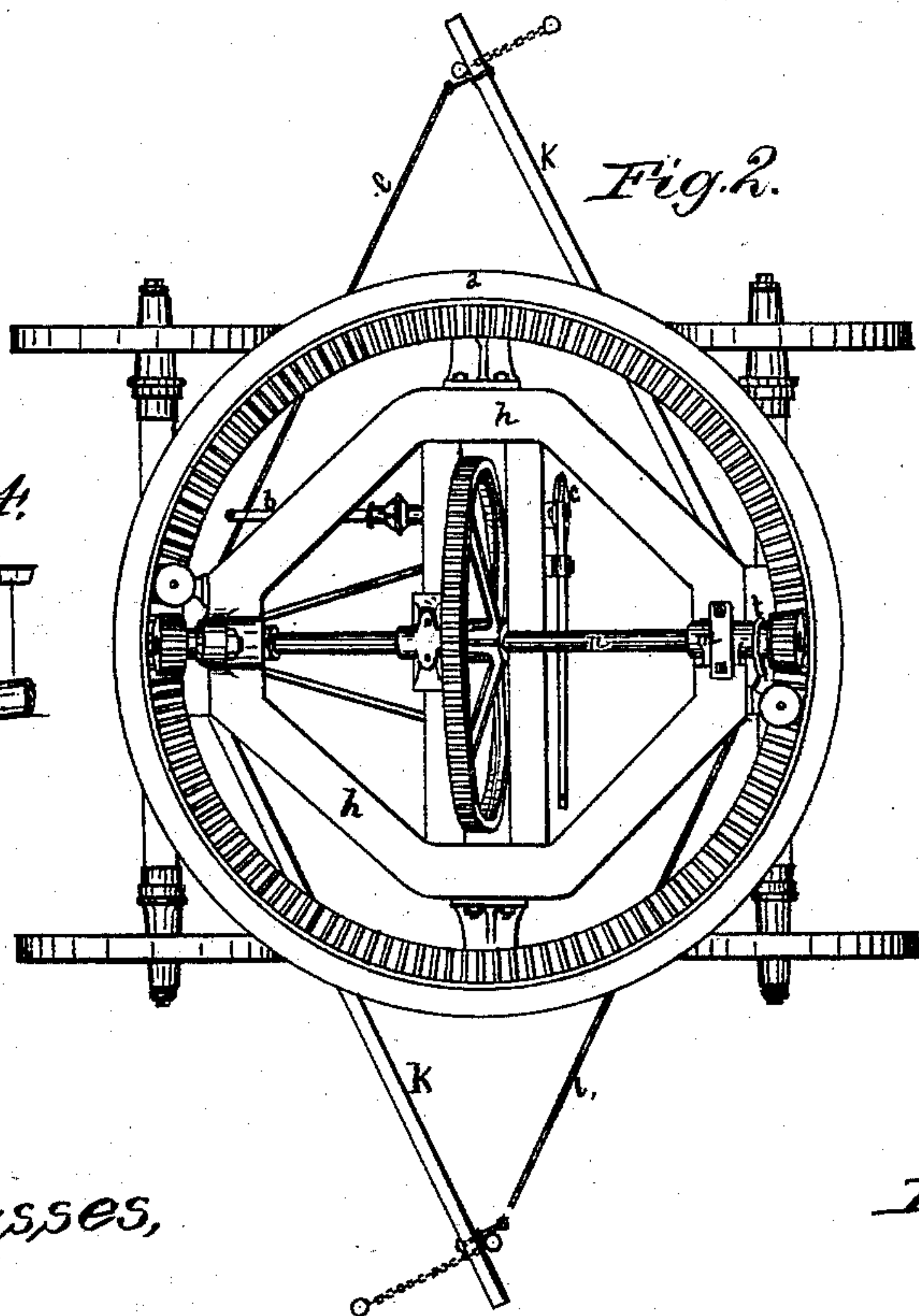
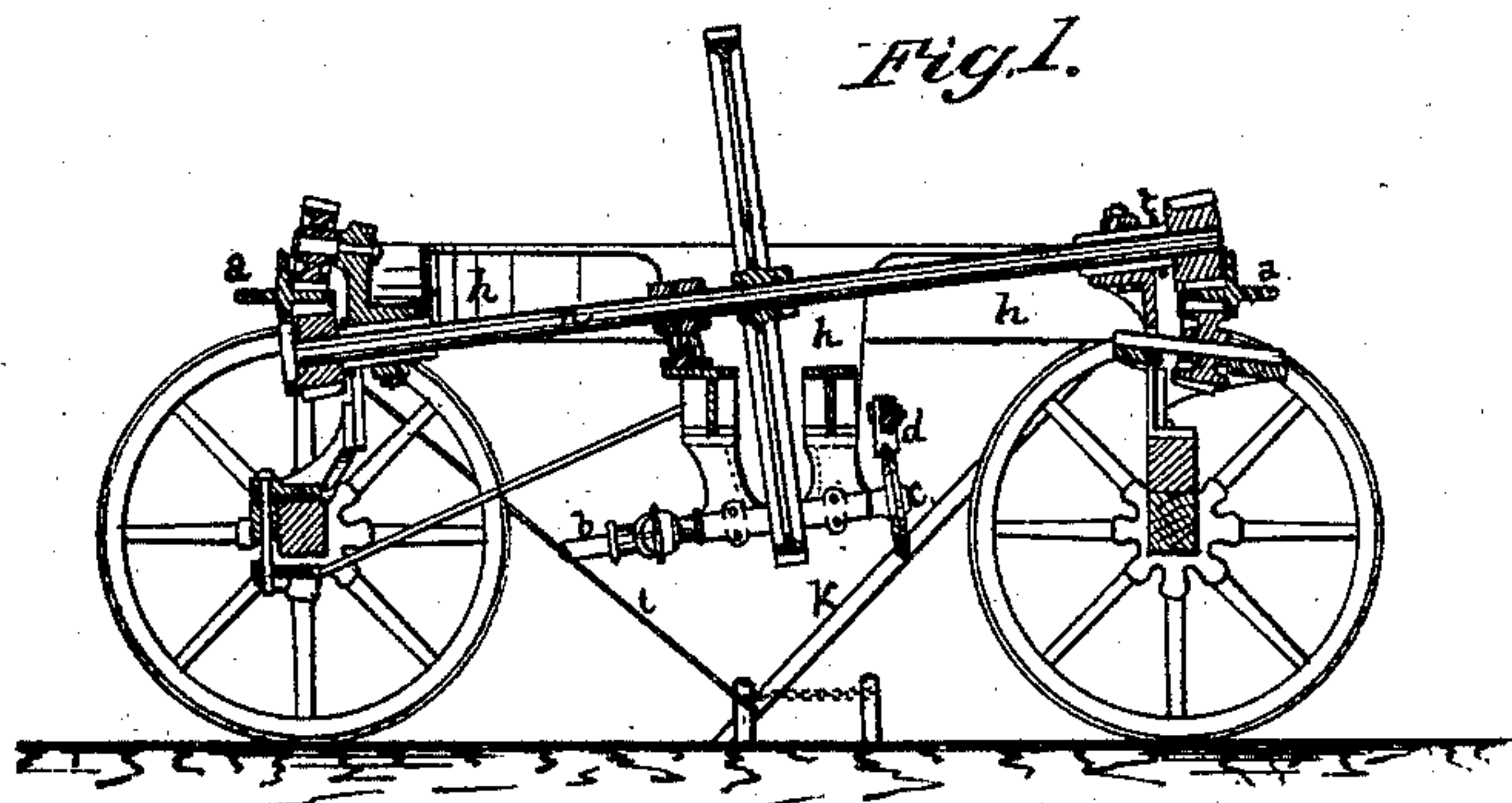


W. W. DINGEE.  
HORSE-POWER.

No. 172,304.

Patented Jan. 18, 1876.



Witnesses,

Inventor.

Emile F. Wagner  
Eagar P. Sawyer

William W. Dingee.

# UNITED STATES PATENT OFFICE.

WILLIAM W. DINGEE, OF OSHKOSH, WISCONSIN.

## IMPROVEMENT IN HORSE-POWERS.

Specification forming part of Letters Patent No. **172,304**, dated January 18, 1876; application filed February 18, 1875.

*To all whom it may concern:*

Be it known that I, W. W. DINGEE, of Oshkosh, in the county of Winnebago and State of Wisconsin, have invented certain Improvements in Horse-Powers, of which the following is a specification:

The first part of my invention is designed to make an iron-frame horse-power, which shall combine strength and lightness. The second part of my invention provides a means by which the driver can stop the team instantaneously in case of accident.

Figure 1 is a vertical section of the horse-power. Fig. 2 is a horizontal view of the horse-power. Fig. 3 is an enlarged view of the brake by which the power is stopped. Fig. 4 is an enlarged section of the front part of the horse-power.

In Fig. 1, *a* is the master-wheel of horse-power, to which the levers are attached. *b* is the line-shaft of the power, running to the machine to be driven, and is given motion by suitable gearing from main shaft *n*. *c* is the brake-wheel to this line-shaft *b*. *d* is the brake, that is brought to bear on wheel *c* by drawing on rod *e*, Fig. 3; this rod passes up through the driver's platform, and terminates in a handle convenient to the driver. *ff*, Fig. 4, represent the flanges on master-wheel *a*, and the corresponding flanges on the pinion

which engages with it; the flanges correspond with the pitch-line of the gear, and give a smooth carriage to master-wheel *a*. *h* is the iron frame of the power. *i* is an iron brace. *k* is a wooden brace. These braces are attached at their outer ends; the iron brace *i* terminates in a hook, which hooks into ring *t*. *m*, Fig. 4, is the box of shaft *n*; this box is cast as part of frame *h*, and lined with suitable box metal. *t* is a wrought-iron ring surrounding box *m*, and into which iron brace *i* hooks. The object of braces *i* and *k* is to furnish a means of securely fastening the power to the ground. Ring *t*, surrounding both the box *m* and main shaft *n*, holds the power by the combined strength of *m* and *n*; the power is thus held from shaft *n*, without depending entirely on the strength of frame *h*.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The mode of staking portable horse-powers by means of the rod *i*, ring *t*, and brace *k*, substantially as described.

2. The combination of line-shaft *b*, the brake-wheel *c*, the brake-lever *e*, and brake *d*, arranged substantially as described.

W. W. DINGEE.

Witnesses:

EDGAR P. SAWYER,  
JOHN O. HANLON.