

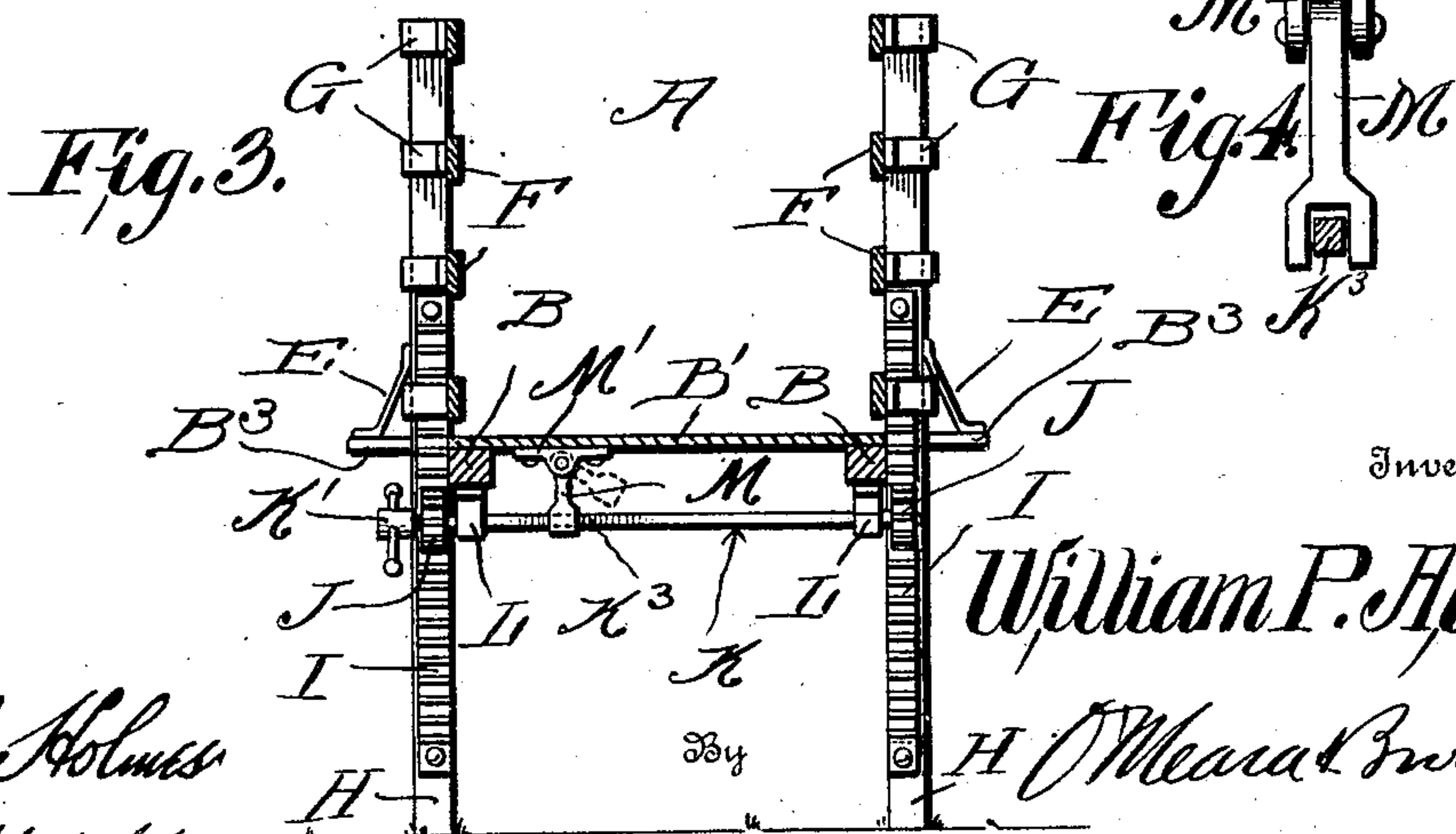
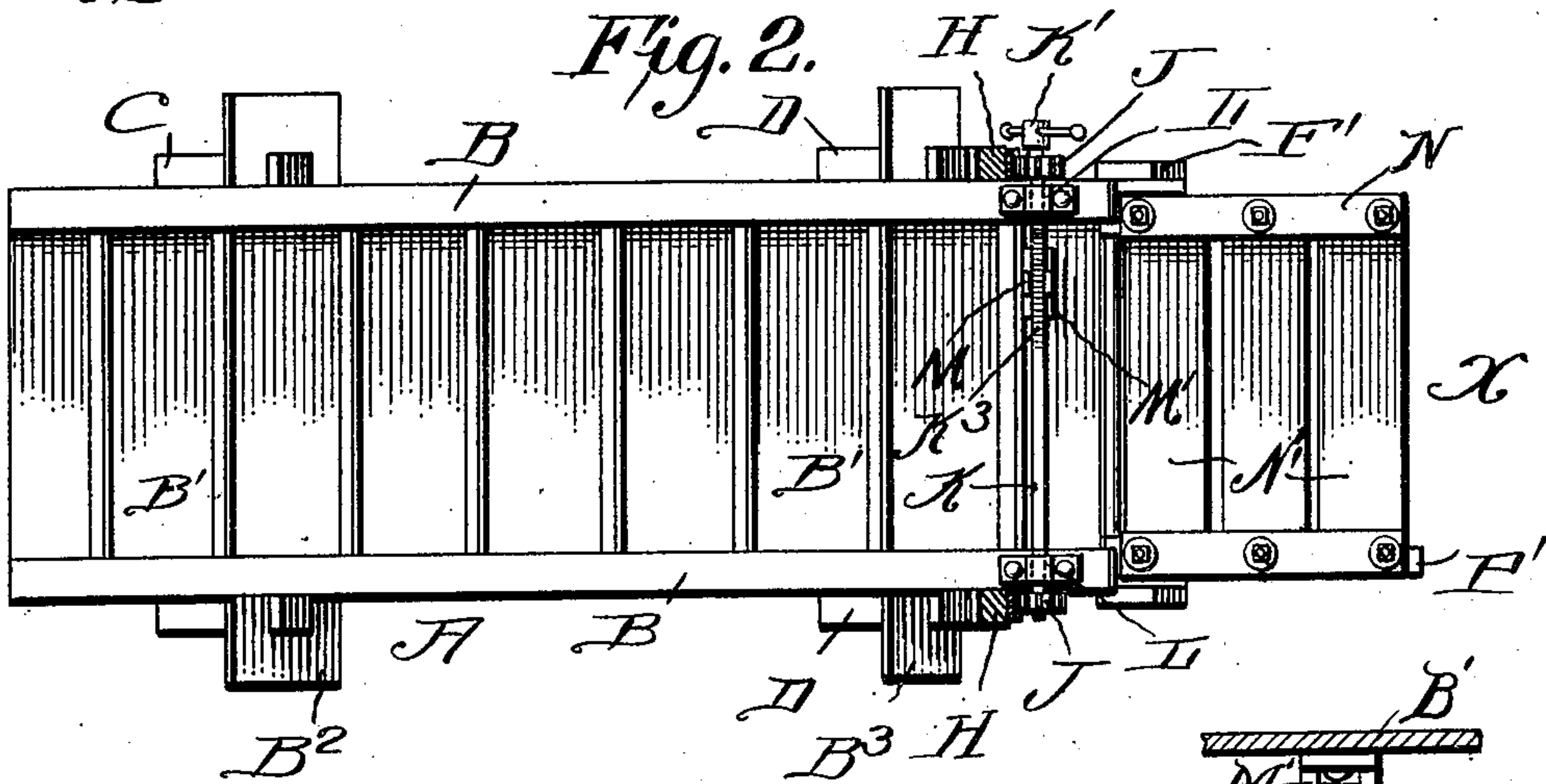
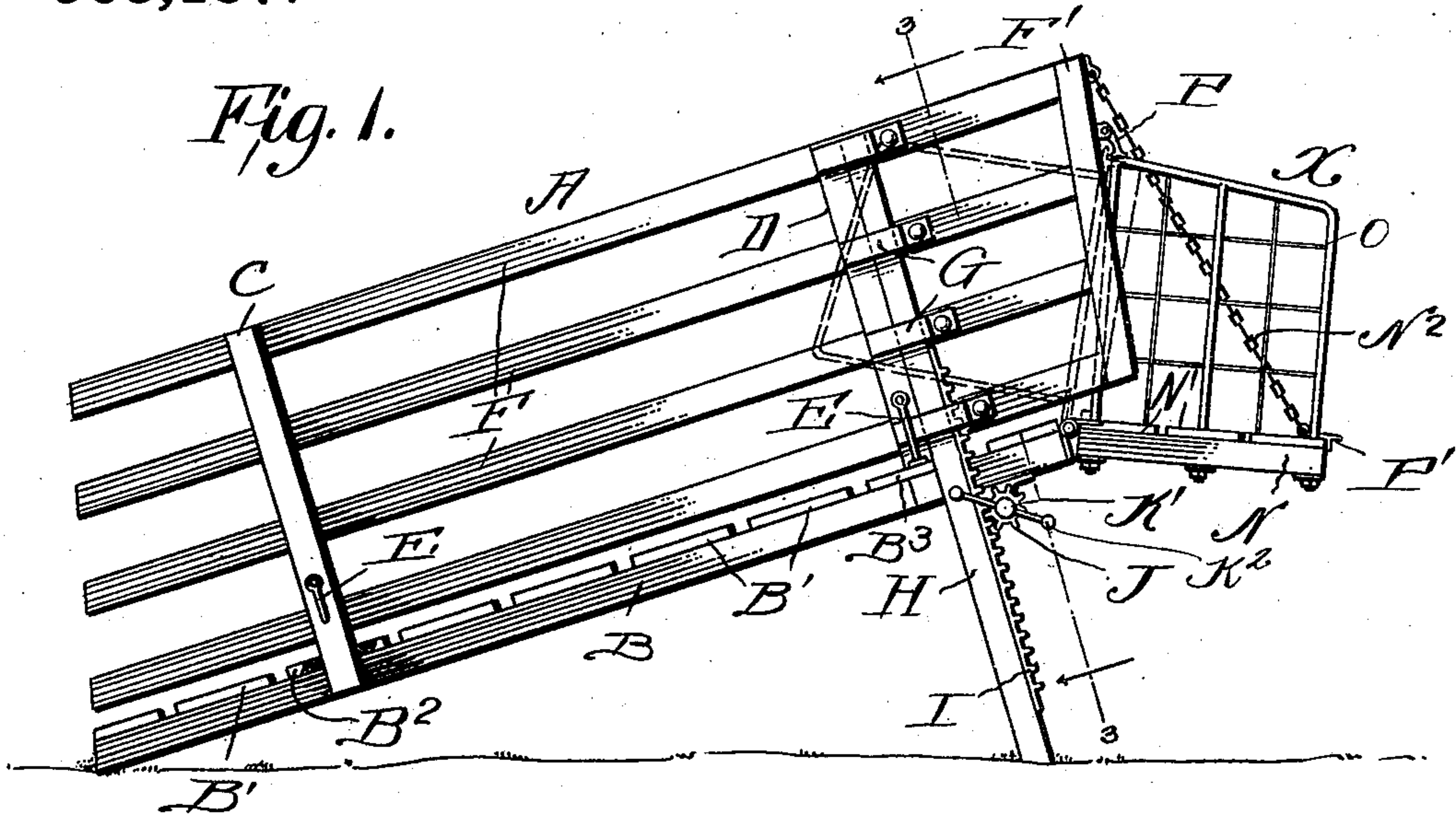
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HOG CHUTE.

APPLICATION FILED MAY 29, 1907.

903,157.

Patented Nov. 10, 1908.



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UNITED STATES PATENT OFFICE.

WILLIAM POTTER ALLEN, OF SIOUX FALLS, SOUTH DAKOTA.

HOG-CHUTE.

No. 903,157.

Specification of Letters Patent.

Patented Nov. 10, 1908.

Application filed May 29, 1907. Serial No. 376,409.

To all whom it may concern:

Be it known that I, WILLIAM POTTER ALLEN, a citizen of the United States, residing at Sioux Falls, in the county of Minnehaha and State of South Dakota, have invented a new and useful Improvement in a Hog-Chute, of which the following is a specification.

This invention relates to adjustable chutes and more particularly to chutes for loading hogs or any other stock into wagons or cars; the object being to provide a chute which can be easily and quickly adjusted so as to suit any height wagon or car thereby overcoming the difficulties now existing with device of this character now in use, of having to prop the chute up or dig away the ground, so as to adjust the chute to the height of the wagon.

Another object of my invention is to provide the chute with a hinged bridge so that stock can be readily loaded over a fence from the field into a wagon on the other side.

Another object of my invention is to provide the chute with a bridge which will fold back so as to close the end of the chute after the stock has been loaded into the wagon so that the stock cannot pass back out of the chute when fixing the tail gate of the wagon.

With these and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts hereinafter fully described and pointed out in the claim.

In the drawing forming a part of this specification:—Figure 1 is a side elevational view of my improved chute showing the bridge folded down partly broken away and shown in section to show passage of a standard through a beam. Fig. 2 is an inverted plan view of Fig. 1, partly in section. Fig. 3 is a sectional view taken on lines 3—3 of Fig. 1. Fig. 4 is a detail sectional view illustrating in side elevation the construction of a dog.

In the drawing A indicates the chute and X the bridge hinged thereto.

The chute is formed of a pair of spaced parallel beams B on which are secured spaced planks B'. The planks B² B³ project out to each side of the beams and are provided with square openings adjacent the beams, in which are secured standards C and D, which are connected to the planks by braces E. Spaced parallel strips F connect the standards C and D which project out be-

yond the upper end of the beams and are connected together at their ends by a vertical strip F'.

Guide brackets G are secured to the strip F and standard D, in which are slidably mounted legs H having racks I secured to the edges which mesh with gear-wheels J secured on a shaft K mounted in bearings L secured to the under side of the beams B, so that the end of the chute can be readily raised or lowered by rotating the shaft. One end of the shaft is provided with a head K' having a transverse bore extending there-through in which is slidably mounted a rod K² for operating the shaft. The shaft is provided with a square portion K³ over which the bifurcated end of a pivoted locking dog M is adapted to fit which is mounted in a bracket M' secured to the under side of one of the planks B'.

Hinged to the end of the beam B are a pair of beams N connected together by planks N' which are supported by chains N² so that stock can be readily loaded over a fence into a wagon. Frames O are secured on the beams N which are provided with vertical and horizontal bars forming sides for the bridge so that it will be impossible for an animal to jump off the same. The bridge is adapted to fold back upon the chute so as to close the chute after the wagon has been loaded and is supported in this position by a pivoted dog P carried by the strip F' which engages a member P' secured to one of the beams.

From the foregoing description it will be readily seen that I have provided a chute which is very simple and cheap in construction and one which will be very effective in use as stock can be loaded into the wagon without any difficulty at all.

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

The combination with a chute provided with legs, carrying racks, of a shaft carried by said chute provided with a square portion, and gear-wheels meshing with said racks of the legs, and a pivoted bifurcated dog carried by the chute adapted to fit over the square portion of the shaft.

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