

No. 774,060.

PATENTED NOV. 1, 1904.

F. E. FOX.
HEADER.

APPLICATION FILED DEC. 23, 1903.

NO MODEL.

FIG. 1.

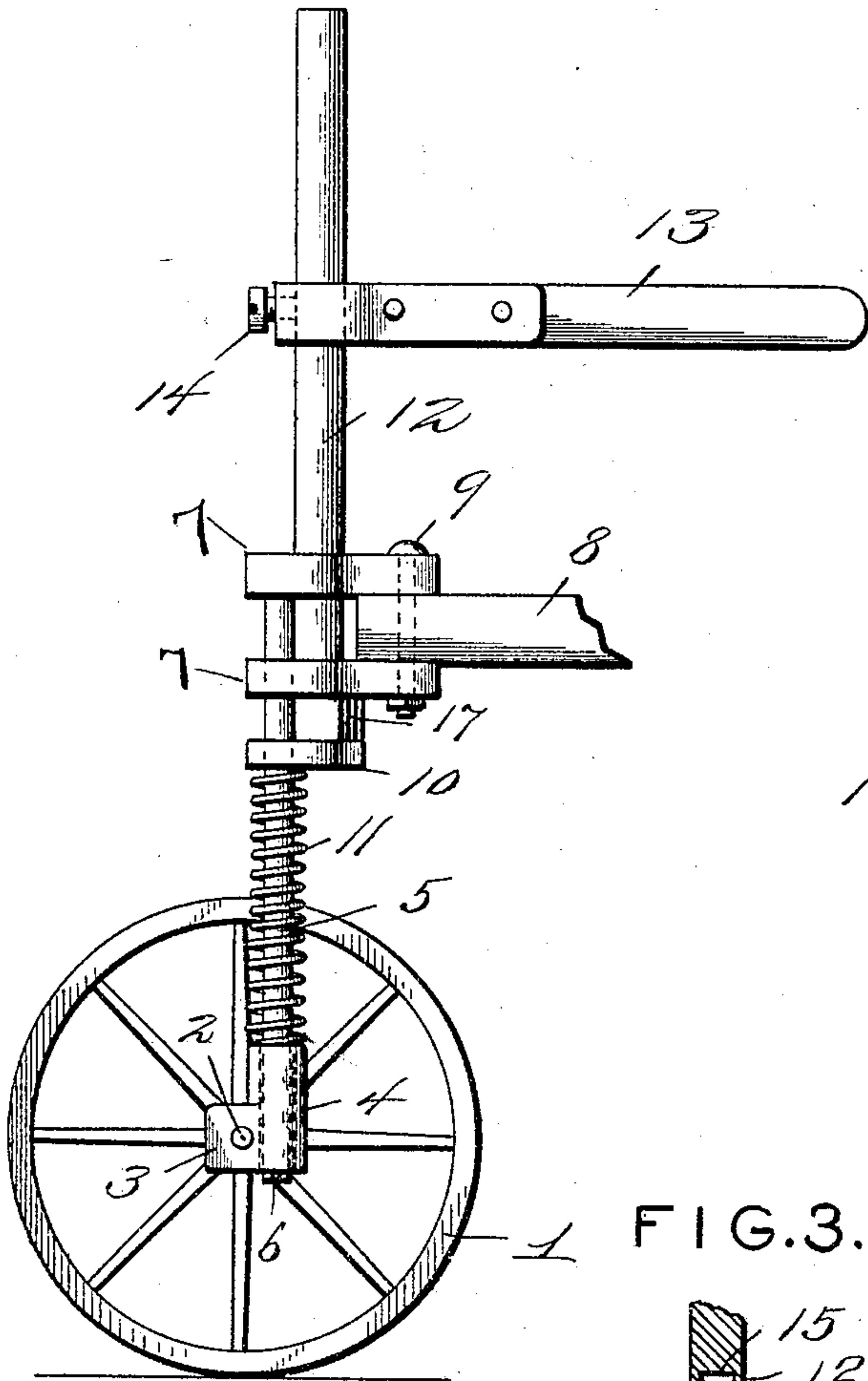


FIG. 2.

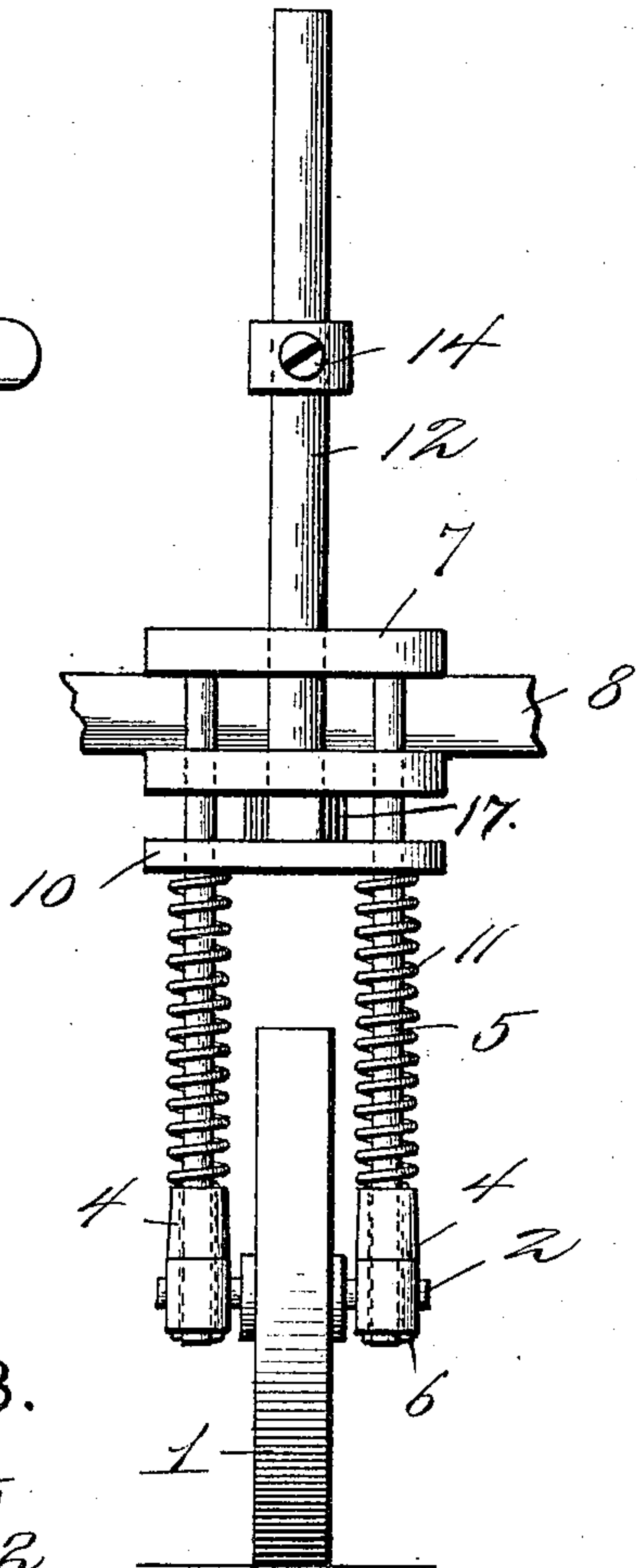
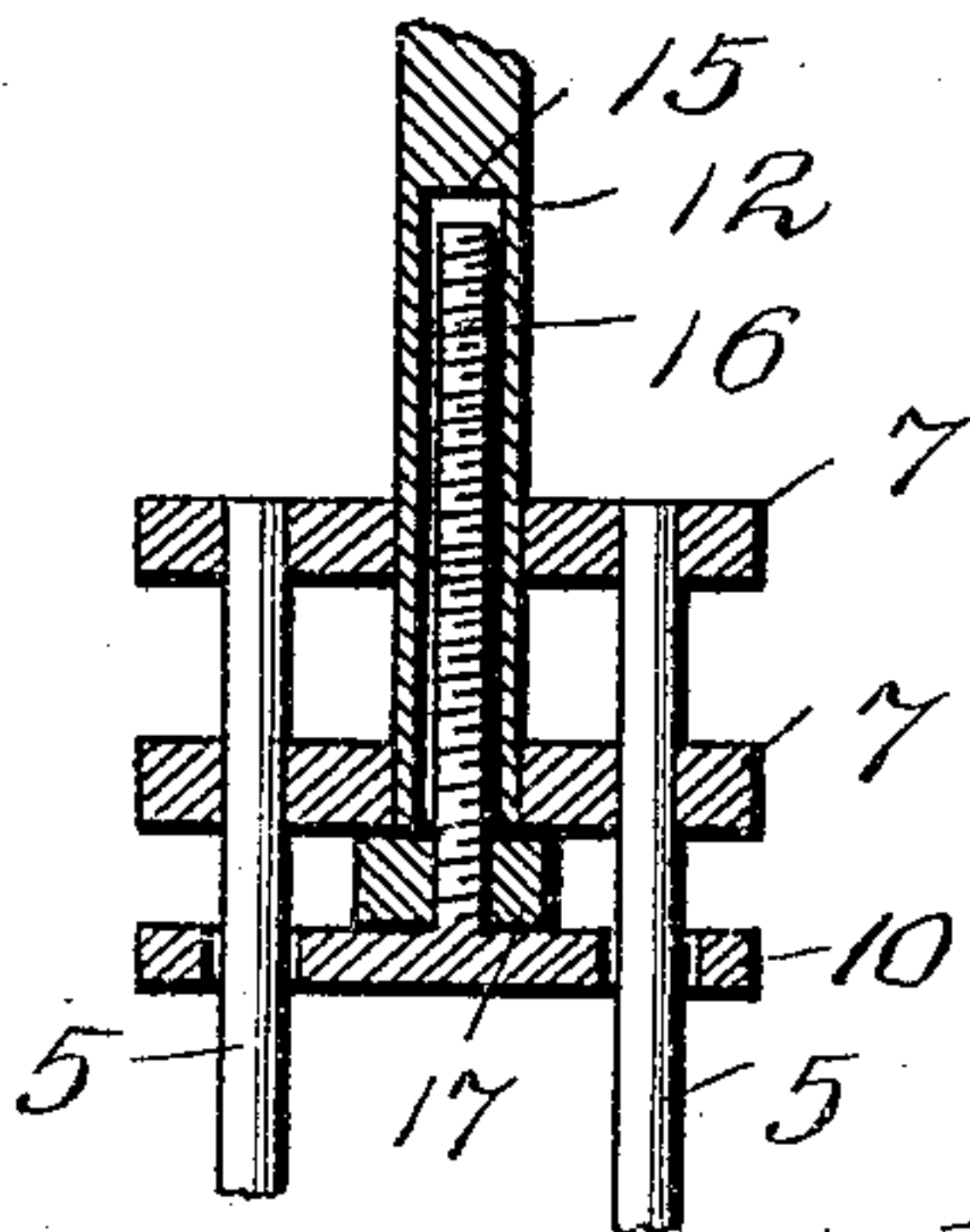


FIG. 3.



Witnesses

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FRED EDWARD FOX, OF KINSLEY, KANSAS.

HEADER.

SPECIFICATION forming part of Letters Patent No. 774,060, dated November 1, 1904.

Application filed December 23, 1903. Serial No. 186,343. (No model.)

To all whom it may concern:

Be it known that I, FRED EDWARD FOX, a citizen of the Kingdom of Prussia, residing at Kinsley, in the county of Edwards and State of Kansas, have invented new and useful Improvements in Headers, of which the following is a specification.

My invention relates to new and useful improvements in headers; and its object is to provide a guide-wheel therefor which is so mounted as to prevent undue jarring of the operator mounted on the machine.

The invention consists in providing plates which are pivotally connected to one end of the tongue of the machine and are provided with a stem having an operating-lever connected therewith. Rods are secured within the plates and are supported within sleeves mounted on the axle of a guide-wheel. Springs inclose the rods and bear at opposite ends upon the plates and sleeves, respectively, and these springs have tensioning devices.

The invention also consists in the novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the guide-wheel and the parts connected thereto. Fig. 2 is a front elevation thereof, and Fig. 3 is an enlarged section through the plates and showing the spring adjusting device.

Referring to the figures by numerals of reference, 1 is a wheel, the axle 2 of which has plates 3 loosely mounted thereon, and integral with these plates are upwardly-extending sleeves 4. In each sleeve is slidably mounted a rod 5, in the lower end of which is arranged a securing-pin 6, and the rods are secured in opposite ends of plates 7, between which is pivotally mounted the tongue 8 of a header or other suitable machine. This tongue is preferably mounted upon a pivot-pin 9, extending through the plates 7. A stop-plate 10 is loosely mounted upon the rod 5 at points below the plates 7, and arranged on the rods between the stop-plate and the sleeves 4 are coiled springs 11, which serve to support the plates 10 and 7 upon the sleeves 4. A stem 12 projects upward from the plates 7, to which it is secured,

and adjustably arranged on the stem is an operating handle or lever 13, the same being adapted to be fastened in place by means of a set-screw 14 or other suitable device. This stem has a recess 15 in its lower end, in which is slidably mounted a threaded rod 16, which is fastened to the plate 10. A nut 17 is located upon the rod 16 between the plates 10 and 7, and by turning this nut the plate 10 can be moved on the rods 5 to produce a desired tension of the springs 11. The springs can thus be regulated to support loads of different weights.

It will be seen that when the guide-wheel herein described passes over an uneven surface the springs 11 will permit the sleeves 4 to slide upward upon the rods 5; but said springs will promptly return the sleeves to their normal position subsequent to the upward movement thereof. By this arrangement of rods jarring of the tongue 8 and parts mounted thereon is prevented and a smoothly-running machine is produced.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

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

1. In a device of the character described, the combination with pivoted plates having parallel rods extending therefrom and means for operating the plates; of sleeves slidably mounted upon the rods, springs contacting with the sleeves for retarding their movement in one direction and a wheel connected to and journaled between the sleeves.

2. In a device of the character described, the combination with pivoted plates and means for operating the same; of parallel rods extending from the plates, sleeves slidably mounted thereon, springs upon the rods and interposed between the sleeves and the plates, plates extending from the sleeves, an axle journaled therein and a wheel upon the axle.

3. In a device of the character described, the combination with pivoted plates, a stem thereon and means for rotating the stem; of parallel rods secured to and depending from the plates, sleeves slidably mounted upon the rods, means for limiting the movement of the sleeves in one direction, springs upon the rods and interposed between the sleeves and plates, plates integral with the sleeves, an axle journaled therein and a wheel upon the axle.

4. In a device of the character described, the combination with pivoted plates having parallel rods extending therefrom and means for operating the plates; of sleeves slidably mounted upon the rods, springs contacting with the sleeves for retarding their movement in one direction, a wheel connected to and journaled between the sleeves and means for regulating the tension of the springs.

5. In a device of the character described, the combination with pivoted plates, a recessed stem therein and means for rotating the stem and plates; of parallel rods secured to and depending from the plates, sleeves slidably mounted on the rods, means for limiting the movement of the sleeves in one direction, a plate slidably mounted on the rods, a threaded rod secured thereto and slidably mounted in the stem, an adjusting device on said rod and interposed between the stem and the slidable plate, and springs on the parallel rods, and between the sleeves and the slidable plate.

In testimony whereof I affix my signature in presence of two witnesses.

FRED EDWARD FOX.

Witnesses:

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