

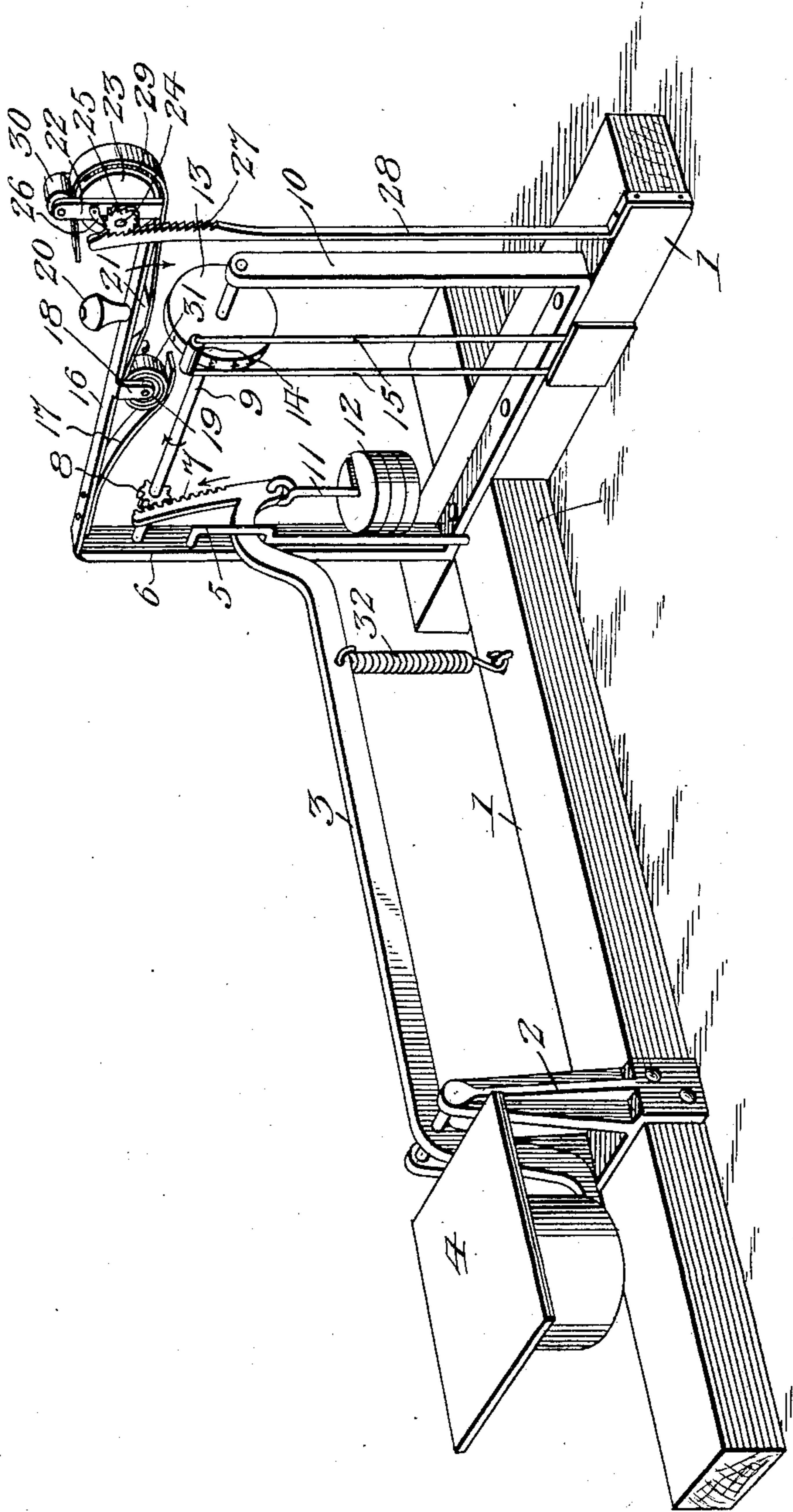
No. 735,523.

PATENTED AUG. 4, 1903.

M. Y. JORDAN.
RECORDING SCALE.

APPLICATION FILED MAY 9, 1903.

NO MODEL.



Inventor

Moses Y. Jordan

Witnesses

Edwin F. McKee
Herbert D. Lawson

By

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

MOSES Y. JORDAN, OF COMER, GEORGIA.

RECORDING-SCALE.

SPECIFICATION forming part of Letters Patent No. 735,523, dated August 4, 1903.

Application filed May 9, 1903. Serial No. 156,469. (No model.)

To all whom it may concern:

Be it known that I, MOSES Y. JORDAN, a citizen of the United States, residing at Comer, in the county of Madison and State of Georgia, have invented new and useful Improvements in Recording-Scales, of which the following is a specification.

My invention relates to new and useful improvements in recording weighing-scales; and its object is to provide a device of this character for automatically recording the weight of objects thereon.

A further object is to provide novel means for automatically feeding a strip of tape to a roller having numerals arranged at suitable points thereon and which are adapted to be brought in contact with the tape and record the weight upon the scales.

With the above and other objects in view the invention consists in providing a scale-beam having a rack-bar integral therewith and meshing with a gear which is secured to a revoluble shaft. A type-wheel is also mounted on this shaft and rotates therewith, and an inking-roller normally bears upon the type on this wheel. A lever is mounted above the type-wheel and is adapted to support a roll of tape which extends between rollers and is adapted when the lever is depressed to come in contact with the type thereunder. The downward movement of the lever and tape operates mechanism of novel construction, which serves to impart longitudinal movement to the tape and bring it into position for the next impression.

The invention also consists in the further novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawing, which is a perspective view of my improved recording-scales.

Referring to the drawing by numerals of reference, 1 is a base having standards 2, between which is journaled a scale-beam 3, having a platform 4 at one end. This beam is mounted in a guide 5, which is secured to a standard 6, and that end of the beam 3 adjacent to the guide 5 has a rack 7 integral therewith and meshing with a gear 8, which is secured to and rotates with a shaft 9, journaled in standard 6 and in the second standard 10. A rod 11 is suspended from the scale-

beam at the end thereof adjacent the rack 7, and this rod is adapted to support a suitable number of weights 12. A type-wheel 13 is secured to and rotates with the shaft 9, and arranged consecutively thereon are numerals. An inking-roller 14 normally bears upon the periphery of wheel 13 and is arranged at the upper ends of spring-arms 15, which extend from the base 1 and serve to hold the roller in contact with the wheel.

A spring-lever 16 is secured to the upper end of standard 6 and is held normally raised above the type-wheel 13. Hangers 18 project downward from the lever, and journaled therein is a spindle 19, upon which is arranged a roll of preferably paper tape 20, which extends under a block 21, secured to the lower surface of the lever 16 at a point directly above the type-wheel 13, and this block serves the purpose of a platen. A spring 17 bears upon the roll of tape and prevents it from turning too rapidly during the unwinding thereof. Standards 22 are arranged at the free end of lever 16, and journaled between them is a roller 23, to the shaft 24 of which is secured a ratchet-wheel 25, normally engaged by a pawl 26. The ratchet-wheel 25 engages a toothed extension 27, formed at the upper end of a standard 28, constructed of spring metal. The free end of lever 16 is bent upward, so as to partly overlap the roller 23, as shown at 29, and this upwardly-curved portion forms a guide for the strip 20, which is bent over the roller 23 and under a small roller 30, journaled between the standards 22 directly above roller 23. A handle 31 is arranged on the lever 16, so as to permit the same to be readily depressed by hand. A spring 32 is connected at opposite ends to the base and to the scale-beam 3, so as to hold the platform normally raised.

When the platform 4 is depressed, the rack 7 of the beam 3 will be moved upward in the direction of the arrow and will cause shaft 9 to rotate, as indicated by the arrow thereon. This will cause the type-wheel 13 to rotate under the inking-roller 14, and this rotation will continue until the weight upon the platform has been counterbalanced by the spring 32. Upon the completion of the rotation of the type-wheel 13 the numeral indicating approximately the weight upon the platform

4 will be in position below platen 21, and lever 16 when depressed by means of handle 31 will bring the strip of tape 20 downward into contact with said numeral, and the impression will therefore be made thereby. 5 The downward movement of lever 16 will cause the ratchet-wheel 25 to slip over the teeth of the extension 27 of the spring-standard 28, and as soon as the lever 16 is released 10 it will return to normal position and ratchet-wheel 25 will be caused to rotate in moving upward upon the toothed extension 27, thereby rotating the roller 23 and imparting longitudinal movement to the strip of tape 20 15 and bringing the same into position upon the platen to receive another impression.

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 20 modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes and alterations as may suggest themselves from time 25 to time which may fall within the scope of my invention.

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

30 1. The combination with a scale-beam fulcrumed between its ends and a rack at one end thereof; of a revoluble shaft, a gear thereon meshing with the rack, a type-wheel upon the shaft, a lever, a platen thereon, a

spindle connected to the lever and adapted 35 to support a flexible strip, a feed-roller supporting said strip, and means operated by the depression of the lever for rotating the roller.

2. The combination with a scale-beam ful- 40 crumed between its ends and a rack at one end of the beam; of a revoluble shaft, a gear thereon meshing with the rack, a type-wheel upon the shaft, a lever, a platen thereon, a spring-standard, a toothed extension thereto, 45 a feed-roller, and a ratchet-wheel revoluble with the roller and adapted to slip over and be rotated by the toothed extension during the depression and the raising of the lever respectively. 50

3. The combination with a scale-beam, a revoluble type-wheel and means for imparting rotary motion to the type-wheel from the scale-beam, of a spring-supported lever, a platen thereon, a feed-roller journaled upon 55 the lever, a ratchet-wheel revoluble therewith in one direction, a spring-standard, and a toothed extension thereto adapted to engage and rotate the ratchet-wheel during the upward movement of the lever, said lever being adapted to be depressed to bring the 60 platen in contact with the type-wheel.

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

MOSES Y. JORDAN.

Witnesses:

W. G. COOK,
M. E. TUCKER.