

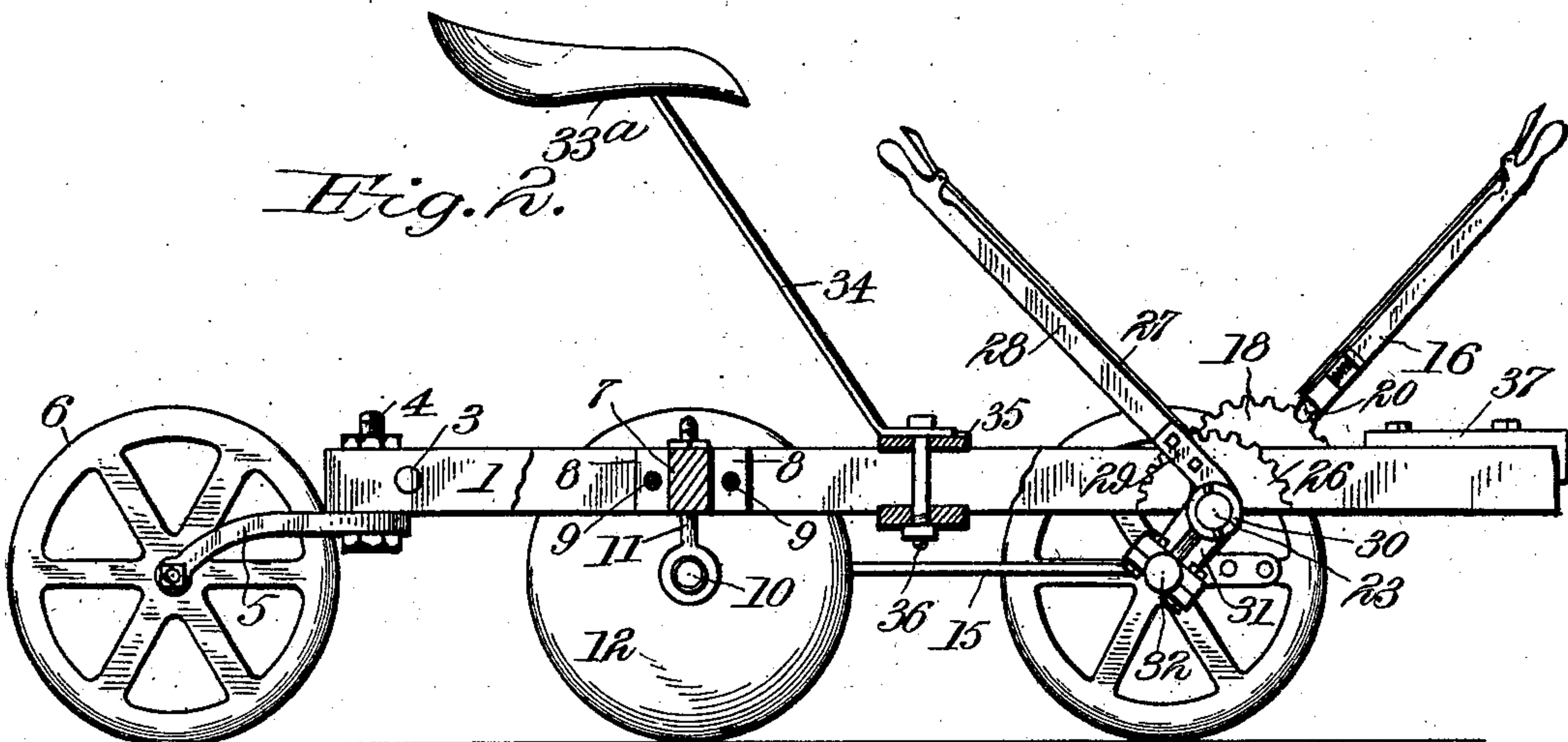
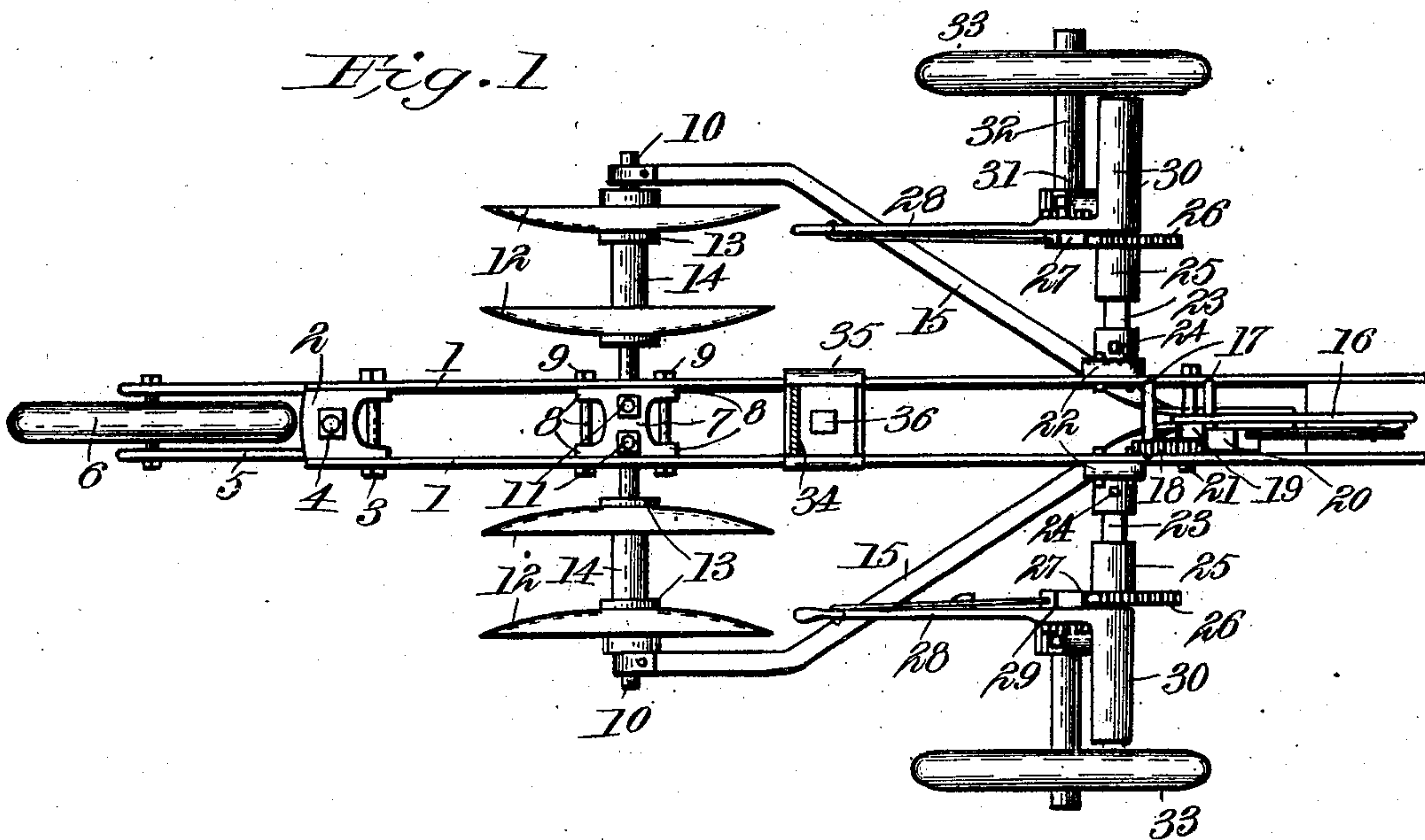
No. 711,638.

Patented Oct. 21, 1902.

L. MATTHEWS.
LISTING MACHINE.

(Application filed June 14, 1902.)

(No Model.)



Inventor

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Witnesses

Frank E. Rapp,
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UNITED STATES PATENT OFFICE.

LAFAYETTE MATTHEWS, OF MERKEL, TEXAS.

LISTING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 711,638, dated October 21, 1902.

Application filed June 14, 1902. Serial No. 111,668. (No model.)

To all whom it may concern:

Be it known that I, LAFAYETTE MATTHEWS, a citizen of the United States of America, residing at Merkel, in the county of Taylor and State of Texas, have invented certain new and useful Improvements in Listing-Machines, of which the following is a specification.

This invention relates to braking-plows, and particularly to that class known as "listing-machines."

The object of the invention is to provide novel mechanism for mounting the beam and connecting same to the axle.

Furthermore, the object of the invention is to produce novel means for connecting the ground-wheels to the axle.

Furthermore, the object of the invention is to provide a series of blocks which are clamped to the beam, said blocks being adjustable and removable.

A further object of the invention is to produce a novel lever-support and means for securing the segmental rack (with which the lever coacts) to the beam.

Furthermore, the object of the invention is to produce a lister which will possess advantages in points of simplicity, efficiency, and durability, proving at the same time comparatively inexpensive.

With the foregoing and other objects in view the invention consists in the details of construction and in the arrangement and combination of parts, to be hereinafter more fully set forth and claimed.

In describing the invention reference will be had to the accompanying drawings, forming part of the specification, and wherein like characters denote corresponding parts in both views, and in which—

Figure 1 is a plan view. Fig. 2 is a view in elevation, parts being broken away where necessary to illustrate the invention.

In the drawings, 1 denotes the sides of the beam, the rear ends of which embrace a block 2, which is clamped in place by means of a bolt 3, extending through the sides and the block. The block has a vertical aperture in which is swiveled a shank 4 of the frame 5, in which a wheel 6 is journaled. The wheel 6 is provided in order that the rear of the beam may be supported, and said wheel is free to turn to accommodate itself to the

movement of the lister. Intermediately the length of the beam I provide a block 7, having flanges 8, apertured to receive the bolts 9, which extend through the sides of the beam for clamping the blocks in position. I prefer to have a plurality of apertures in the sides of the beam in order that the block may be adjusted longitudinally of the beam. Shafts 10 are provided with upturned ends 11, projecting through the holes in the block 7, wherein they are pivoted, in order that the outer ends of the shafts may be free to swing in the arc of a circle. Listing-disks 12 are secured to the flanges 13, said flanges being formed with the sleeve 14, which sleeve is mounted on the shafts 10. Links 15 have eyes at the rear ends, which fit over the outer ends of the shafts 10, and the forward ends of the links are pivoted to the lever 16 in order that the angle of the shafts 10 with relation to the beam may be varied to bring the disks into such relation as to form a ridge to suit the particular requirement.

The inner faces of the sides of the beam are provided with vertical grooves in which are seated the ends of the arms 17, which support the segmental rack 18. A lug 19 is formed with one of the arms 17, and the lever 16 is pivoted thereto, said lever carrying a spring-pressed detent 20, which engages the segmental rack and retains the lever in any degree of adjustment. The segmental rack and its arms are clamped between the sides of the beam by means of the bolt 21.

A bracket 22 is bolted to the outer surface of the beam and receives the axle 23, which is secured against movement by the bolt 24. Collars 25 are secured near the ends of the axle and carry the segmental racks 26, engaged by the detent 27 of the lever 28. The levers 28 are bolted to arms 29, formed with the sleeves 30, mounted on the outer ends of the axle. Depending arms 31 have bolted thereto the spindles 32, on which the ground-wheels 33 are mounted. By means of the lever 28 the height of the beam may be varied, as will be understood.

The seat 33 and its support 34 may be of any ordinary construction, said support being seated in a groove formed in the plate 35, said plate having recesses in its under surface at the edges, in which the inner upper

edge of the sides of the beam are seated. A bolt extends through the support 34 and plate 35 and through a plate resting on the under edge of the sides of the beam, whereby the seat-support is clamped in place and may be adjusted longitudinally of the beam.

A suitable tongue 37 and draft connections of any ordinary construction may be employed, but as they form no part of the present invention need not be described in detail.

The construction, operation, and advantages will, it is thought, be understood from the foregoing description, it being noted that various changes may be made in the proportions and details of construction without departing from the scope of the invention.

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

1. In a listing-machine, a divided beam comprising two sections and having vertical grooves, arms seated in said grooves and carrying a segmental rack, a lug formed on the arm, a lever pivoted thereto, links pivoted to the lower end of the lever, shafts to which the rear ends of the links are connected and disks on the shaft.

2. In a listing-machine, a beam comprising two sides connected by interposed blocks,

means for adjusting one of the blocks longitudinally of the beam, wheel-supporting blocks attached to the outside of the beam, an axle secured to the blocks, a sleeve on the end of the axle, a lever-carrying arm formed with the sleeve, a depending arm formed with the sleeve, a spindle secured to the depending arm and a wheel on the spindle as and for the purpose described.

3. In a listing-machine, a beam comprising two sides with interposed blocks, means for adjusting one of the blocks longitudinally of the beam, a bracket secured to the beam, an axle secured to the bracket, a collar on the axle having formed therewith a segmental rack, a sleeve on the end of the axle, a lever-carrying arm formed with the sleeve, a depending arm also formed with the sleeve, a spindle fitted to the depending arm and a wheel on the spindle, as and for the purpose described.

In testimony whereof I affix my signature, in the presence of two witnesses, this 30th day of April, 1902.

LAFAYETTE MATTHEWS.

Witnesses:

F. P. HAMM,

W. A. MOON.