

950,457.

2 SHEETS—SHEET 1.

Technical drawing of a mechanical device, likely a pump or engine component. The drawing shows two large wheels (4 and 5) connected by a central shaft (28). The device includes various levers (29, 30, 31), chains (20, 21, 22, 23, 24, 25, 26, 27), and structural supports (17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31). The drawing is labeled with numbers 1 through 31.

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ROAD WORKING MACHINE.
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Patented Feb. 22, 1910.

3 SHEETS—SHEET 2.

Fig. 3.

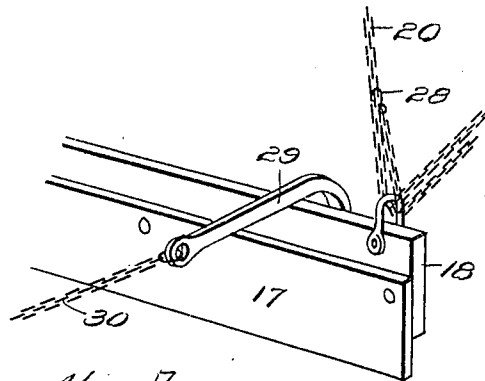
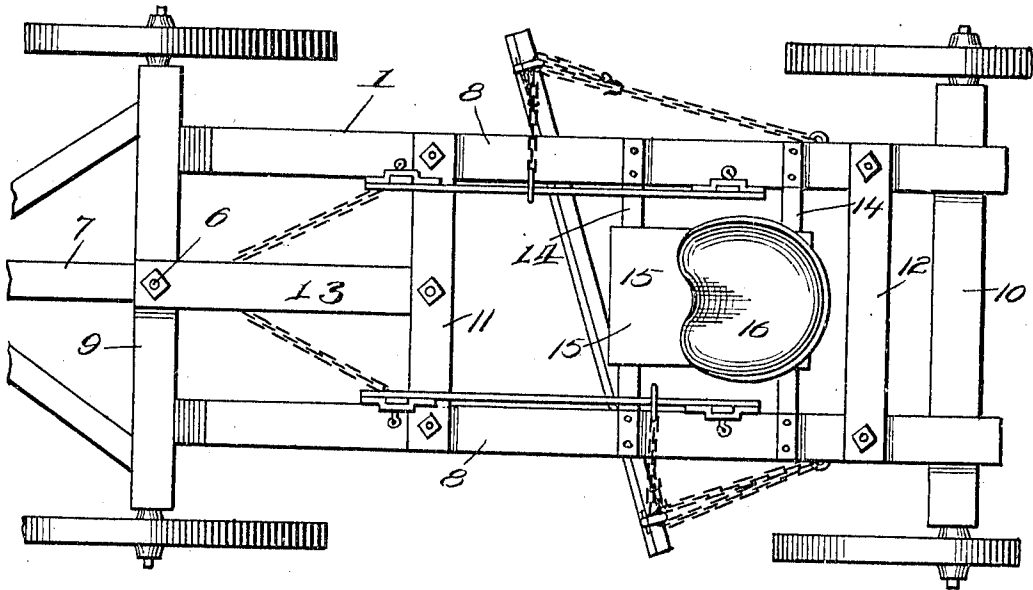


Fig. 4.

Witnesses

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ROAD-WORKING MACHINE.

950,457.

Specification of Letters Patent.

Patented Feb. 22, 1910.

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To all whom it may concern:

Be it known that I, JOHN M. PARCEL, Sr., a citizen of the United States, residing at Mendota, in the county of Putnam and State of Missouri, have invented new and useful Improvements in Road-Working Machines, of which the following is a specification.

This invention relates to road-working implements, and particularly to graders, scrapers and like machines.

The object of the invention is to provide a simple and comparatively inexpensive construction of implement which may be employed for general road-grading, scraping and cutting work, and in which the scraper blade is adjustable to vary its action and to throw it into and out of operation at will.

The invention consists of the features of construction, combination and arrangement of parts hereinafter fully described and claimed, reference being had to the accompanying drawings, in which:—

Figure 1 is a side elevation of a road-working machine embodying my invention. Fig. 2 is a vertical transverse section of the same. Fig. 3 is a top plan view of the machine. Fig. 4 is a perspective view of a portion of the scraper blade and associated parts.

Referring to the drawings, the numeral 1 designates the main frame of the machine which is mounted upon front and rear axles 2 and 3 and sets of steering and supporting wheels 4 and 5 carried thereby. The front axle is mounted as usual upon a king bolt 6 and has connected therewith a tongue or other draft element 7 for the attachment of draft animals. The frame 1 embodies longitudinal side bars 8 connected by front, rear and intermediate cross bars 9, 10, 11 and 12, respectively, the bars 9 and 11 being further connected by a longitudinal brace 13. Spaced straps 14 are also fixed to the side bars and carry a frame 15 supporting the driver's seat 16.

A blade 17, adapted for scraping, cutting and other like operations, extends below the frame and diagonally thereof and is secured to a carrier beam 18 at the ends of which are arranged loops 19. Through these loops are passed suspending chains 20, which support the beam from a pair of longitudinal hanger bars 21, each having sleeves 22 slidably engaging a pair of supporting standards 23 rising from the adjacent side bar. Said sleeves carrying set screws or fastening pins

24 adapted to engage openings 25 in the standards, whereby the hanger bars are mounted for vertical adjustment. Each chain is provided at its upper end with a ring or eye 26 engaging the bar 21 and extends downward and passes through the loop 19 and thence through a guide 27 on the adjacent side bar in rear of the blade, and has its opposite end extending backward through the loop 19 and upward therefrom and provided with a hook 28 to engage one of the links of the upper portion of the chain, by which the chain may be adjusted to secure a fine degree of adjustment of the blade.

The beam 18 is provided with a pair of forwardly extending hanger bars or arms 29 which are connected with draft chains 30 extending forwardly and connected by suitable couplings 31 with the front bolster or axle, by which the blade is additionally supported and sustained against rearward movement, so that it will be properly retained in position to cut or scrape the surface of the road.

The operation will be readily understood by those versed in the art from the foregoing description of the construction, and it will be seen that by the use of the rear suspending devices the scraper may be initially adjusted to the desired degree by regulating the effective length of the suspension chains, and may be adjusted to as fine a degree as desired by raising and lowering the bars 21, by means of which latter said scraper may also be elevated to a position above the ground surface for convenience in transporting the machine.

I claim:—

1. A road-working machine comprising a frame, hangers adjustably mounted on the frame, a scraper blade extending diagonally beneath the frame, means flexibly supporting said blade from the forward portion of the frame, suspending devices on the frame in rear of the blade, and suspension chains connected at one end with the hangers and extending through said suspending devices, said chains having a sliding engagement with the scraper blade and being adjustable as to length.

2. A road-working machine comprising a frame, standards rising from the frame, hanger bars adjustably mounted on the standards, a scraper blade extending diagonally beneath the frame, means flexibly sup-

porting said blade from the forward portion
of the frame, suspending devices on the
frame in rear of the blade, and suspension
chains connected at one end with the hanger
5 bars and extending through said suspension
devices, said chains having a sliding en-
gagement with the scraper blade and being
adjustable as to length.

In testimony whereof I affix my signa-
ture in presence of two witnesses.

JOHN M. ^{his} X PARCEL, Sr.
_{mark}

Witnesses:

C. L. DURBIN,
NATHAN MILLER.