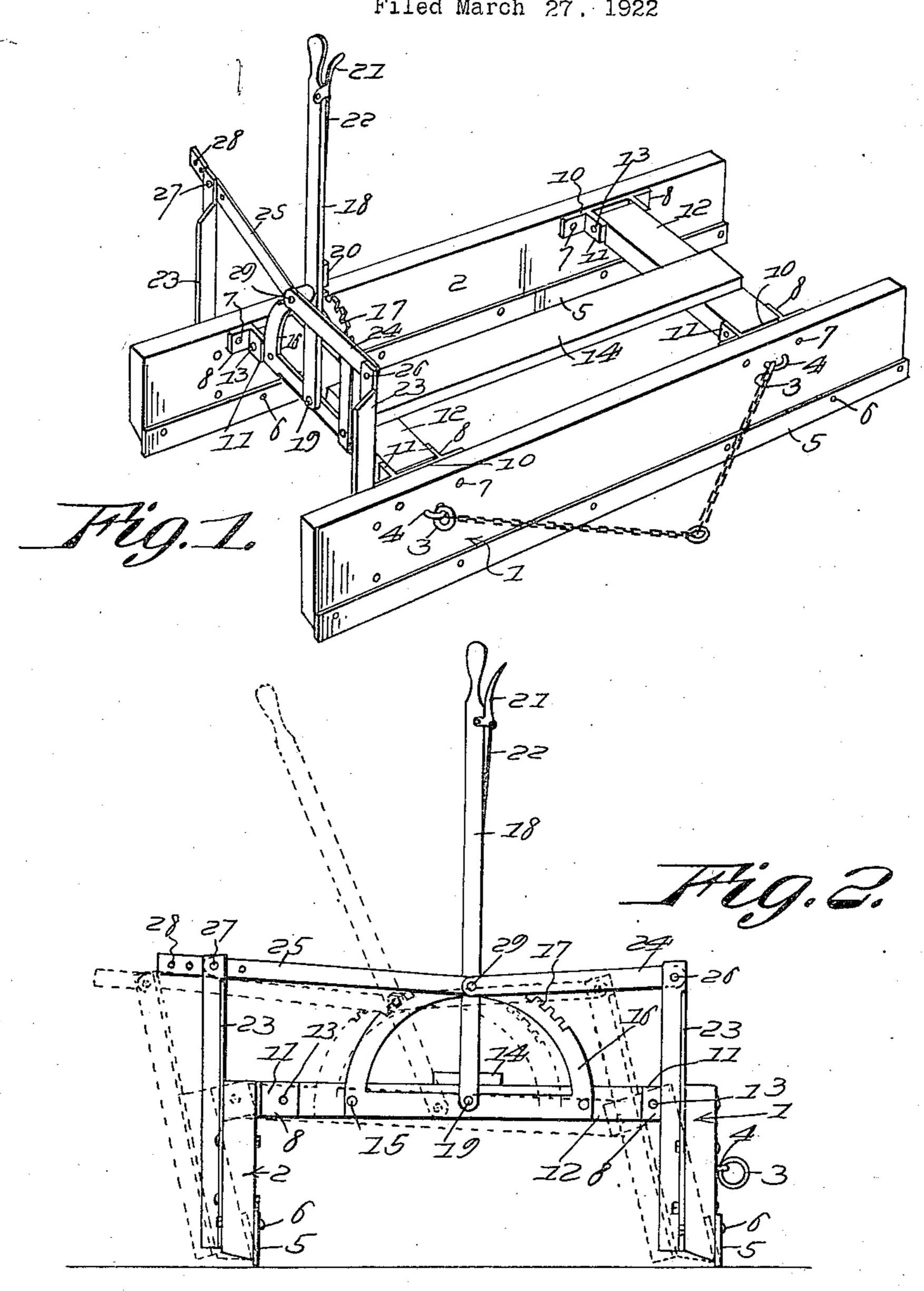
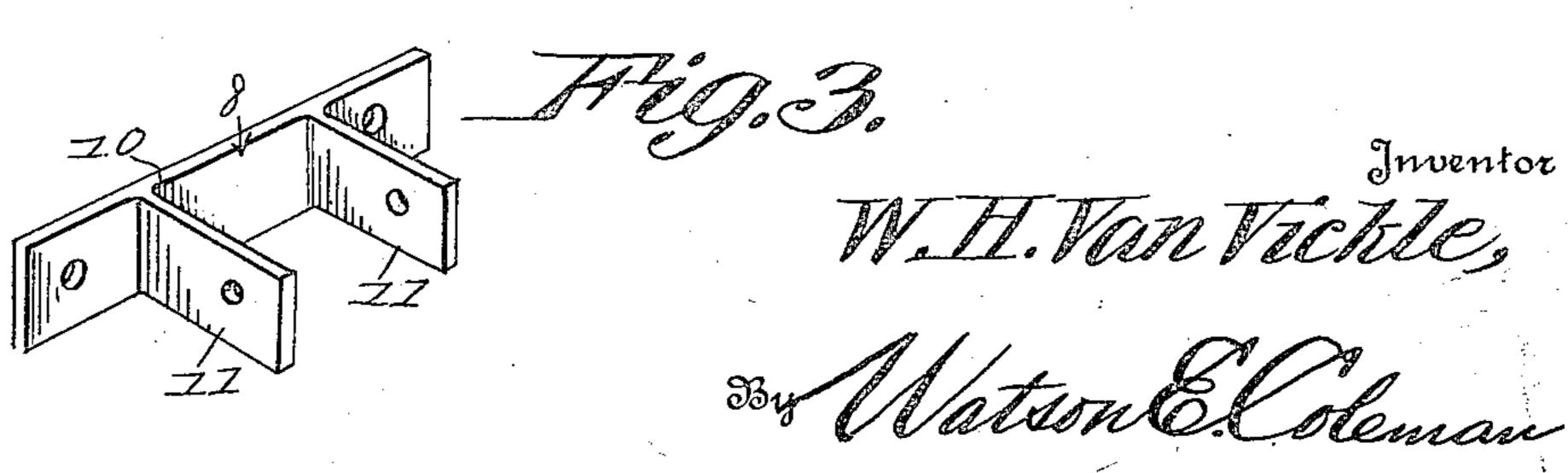
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ROAD DRAG

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UNITED STATES PATENT OFFICE.

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ROAD DRAG.

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To all whom it may concern:

5 State of Missouri, have invented certain new and useful Improvements in Road Drags, of which the following is a specification, reference being had to the accompanying drawings.

10 It is well known that there are many different constructions of drags, wherein the blades are adjustable by means of levers, but in the best of them, the entire construction thereof is made of metal, therefore such 15 machines are more or less too heavy, and

very expensive.

It is, therefore, the purpose of the present invention to construct a road drag, wherein the operating means for the blades, and what 20 is called the drag irons for connecting the blades are constructed of metal, enabling the manufacturer to utilize wooden scraper blades, and wooden connecting links between 25 form, so that a road drag may be produced downwardly inclined positions of the blades 80 for a reasonable cost.

Another purpose is the provision of wooden blades, including metallic shoes on the view of one of the drag irons. forward lower portions of the blades, to cut 30 the soil and to protect the blades from wear- nate the forward and rear scraper blades, 85

ing on the bottoms.

road drag, wherein connecting links (which face of the forward blade suitable rings or are constructed of wood) support an opera- eyes 3 are connected to eyes 4, whereby a contor's platform, and which are pivotally con-ventional form of equalizer may be attached 90 nected to the blades, so as to at all times to the road drag, for traversing the drag remain substantially level, yet enabling the over the road. In other words draft aniblades to be adjusted at different angles. If mals may be attached to the equalizer (not the blades are inclined forward and down- shown), for drawing the machine. wardly, they have less cutting action on the Adjacent the lower forward edges of the 95 action is greatly increased.

A further purpose has to do with the im- on the bottoms. proved operating means, which is so connected to the blades, that the blades can be blades by means of bolts 7 are what may be inclined in either of these directions con-50 veniently and readily while the road drag is in operation, without disturbing the posi-lugs 11, which are properly spaced for the

tion of the connecting links. metallic operating means and metallic drag preferably of wood) for the purpose of piv-55 irons, so that such parts can be made as otally connecting the blades. In fact bolts 110

articles of manufacture, being sold in sets, Be it known that I, William H. Van so that by constructing wooden connecting Vickle, a citizen of the United States, resid-links and blades and applying them to the ing at Mound City, in the county of Holt and metallic operating means and drag irons, a very cheap road drag can be produced, and 60 one wherein the connecting links and blades may be renewed at any time.

> It is to be understood that the particulars herein given are in no way limitative and that while still keeping within the scope of 65 the invention, any desired modifications of detail and desired proportions may be made in the apparatus according to circumstances.

> The invention comprises further features and combination of parts, as will be herein- 70 after set forth, shown in the drawings and claimed.

In the drawings:—

Figure 1 is a view in perspective of the improved road drag constructed in accord- 75 ance with the invention;

Figure 2 is an end view, showing the vertical positions of the blades, the forwardthe blades, for the support of a wooden plat- ly and downwardly, and rearwardly and in dotted lines;

Figure 3 is an enlarged detail perspective

Referring to the drawings, 1 and 2 desigwhich may be constructed of any suitable Still another purpose is the provision of a material, preferably wood. On the front

road, due to the shoes being out of contact blades 1 and 2 suitable road drag shoes 5 with the road, and if the blades are vertical, are attached by means of bolts 6. Obviously the cutting action is lessened, and if inclined these shoes may be renewed when worn out, downwardly and rearwardly, the cutting and are designed primarily for cutting the soil and protecting the blades from wearing 100

Secured to the inner adjacent faces of the termed as drag irons 8. Each drag iron is in the form of a plate 10 having ears or 105 reception of the ends of the connecting Furthermore it is the aim to provide links or beams 12 (which are constructed

13 pass through the ears or lugs 11 and through the ends of the connecting links or

beams 12 to provide pivots.

A suitable platform 14 is secured in any 5 suitable manner to the upper faces of the links or beams 12, for the purpose of supporting an operator, preferably in standing position, in order that the operating means

for the blades may be adjusted.

15 tric with the center of the plate. This lever elevate from engagement with the road bed. spring retained dog 20, which is designed to the shoes will cut deeper into the soil. cooperate with the teeth of the segment rack, The invention having been set forth, what to hold the lever in different adjusted po- is claimed is: nected by a link 22 to the dog, for the purpose of operating the same.

25 of the blades 1 and 2, at positions adjacent disposed within the brackets whereby said one of the connecting beams 12 are angle blades may move relative to the beams, a 30 pivot 26 is permanent. However the link at their ends to the lever, one of said links 25 at its rear end is provided with a plu-being adjustable, said links being adapted to receives the pivot 27 (which is in the ment of the lever and the position of the form of a bolt). Obviously this bolt 27 can arms of the blades. 35 be adjusted in any one of the apertures 28, In testimony whereof I hereunto affix my for adjusting the rear blade 2 relatively to signature. the forward blade 1. The blades may operate in parallelism, when shifted to as-

sume different angles relatively to the road bed, but when the bolt 27 is adjusted in the 40 rearmost aperture or opening 28, the rear blade 2 will assume an angular position relatively to the forward blade. The adjacent ends of the links 24 and 25 are pivotally connected by means of a bolt 29 to the lever 45

Obviously the operator while standing Secured to one edge of one of the beams 12 upon the platform 14 may move the lever by means of bolts 15 is a segment rack 16 18 forwardly or rearwardly, and thereby having teeth 17. A conventional form of change the angular positions of the blades 50 lever 18 is pivoted at 19 to the segment rack, 1 and 2. If the lever is moved rearwardly, it and is designed to swing on a radius concen- is obvious that the shoes 5 on the blades will is provided with a conventional form of If the lever 18 is adjusted forwardly, then

20 sitions, there being a hand grip 21 mounted In a road drag comprising a pair of scrapadjacent the handle of the lever 18 and con- ing blades disposed in spaced parallel relation to each other, spaced brackets carried 60 by the confronting faces of each blade, a Rising from and secured to the rear faces beam extending between said blades and bars or arms 23. Links 24 and 25 are piv- lever pivoted to one of said beams, an arm 65 otally connected at 26 and 27 to the upper projecting from each blade, links projectends of the angle arms or bars 23. The ing from each arm and pivotally connected rality of apertures 28, any one of which adjust themselves according to the move- 70

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