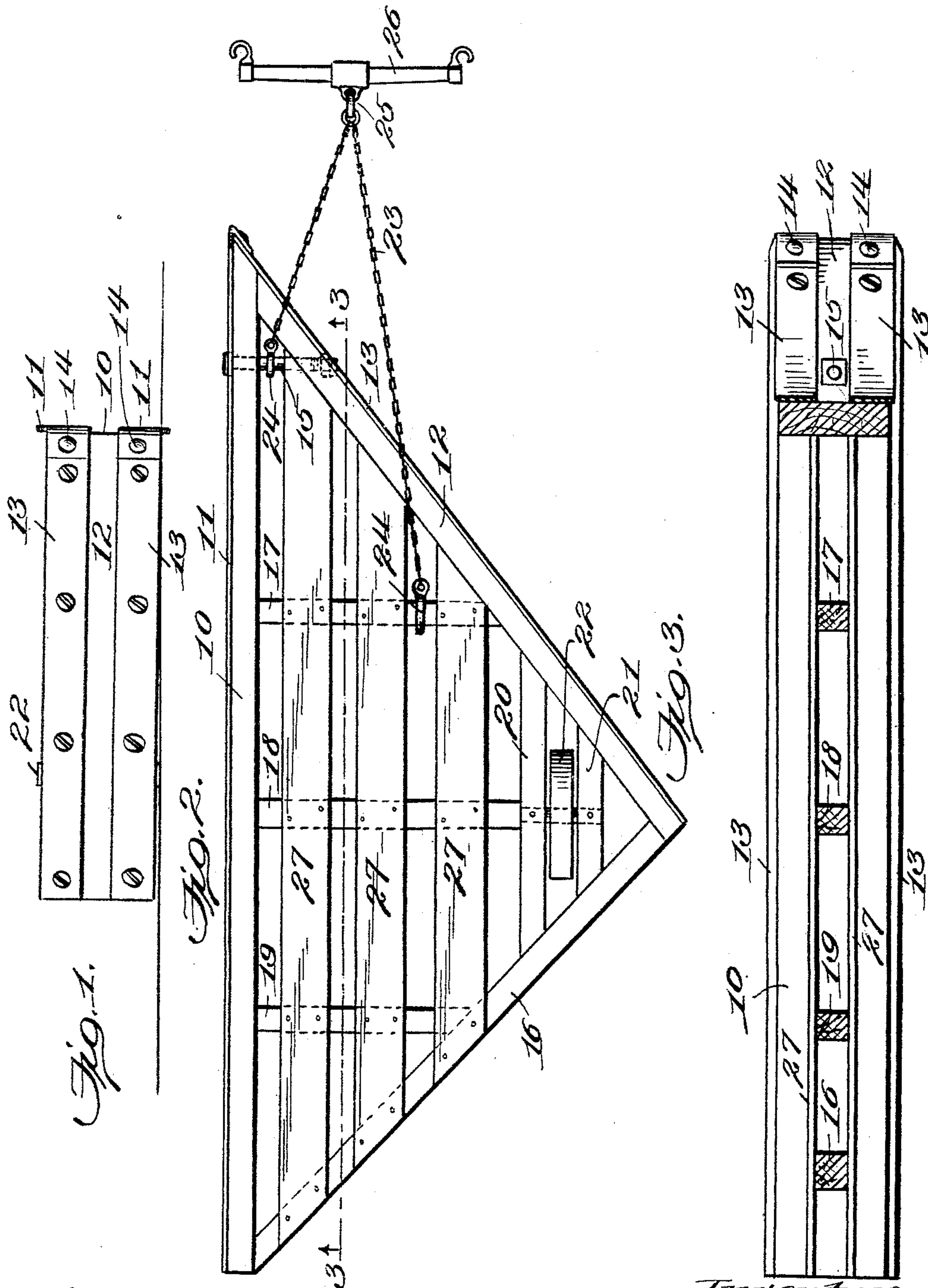


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ROAD GRADER AND SMOOTHER.
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962,299.

Patented June 21, 1910.



Witnesses:
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UNITED STATES PATENT OFFICE.

HENRY C. BARNETT, OF JEFFERSON, GEORGIA.

ROAD GRADER AND SMOOTHER.

962,299.

Specification of Letters Patent. Patented June 21, 1910.

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To all whom it may concern:

Be it known that I, HENRY C. BARNETT, a citizen of the United States, residing at Jefferson, in the county of Jackson and State of Georgia, have invented certain new and useful Improvements in Road Graders and Smoothers, of which the following is a specification.

My present invention relates to road graders and smoothers, or scrapers, my object being to provide a device which will be simple and inexpensive and yet perform its functions as efficiently as complicated and expensive devices, for instance those devices embodying rudders and like guiding means, parts which are done away with in my device.

In the accompanying drawing, showing my invention, Figure 1 is a front elevation of my improved device. Fig. 2 is a top plan view thereof, and, Fig. 3 is a longitudinal section therethrough on line 3—3 of Fig. 2.

Referring to these figures, I provide a landside 10 which forms a guide beam for the device, having upon its outer surface longitudinally extending blades 11, the outer longitudinal edges of which project beyond the adjacent edges of said beam 10 whereby to cut into the road surface and thus guide the apparatus in a straight line, the lower edge of the beam 10 sliding upon said surface. The forward end of the beam 10 is beveled and receives thereagainst the forward beveled end of the rearwardly and angularly extending smoothing beam 12, the latter having longitudinal blades 13 which are similar to the guiding blades 11 except that their edges project only slightly beyond the edges of said beam 12, thus adapting them to scrape the loose earth over the road surface without digging thereinto as do the further projecting blades 11. As shown, the forward ends of the guiding blades 11 project beyond the end of beam 10 and are tapered and bent around the ends and lapped upon the adjacent ends of smoothing blades 13 and secured by rivets 14. A bolt 15 extending through and between beams 10 and 12 adjacent their forward ends, serves to connect the same.

The rear ends of beams 10 and 12 are connected by a brace beam 16, extending angularly between them, and forming therewith, and with forward, intermediate and rear cross-braces 17, 18 and 19, a rigid frame, said forward brace 17 extending between

beams 10 and 12 and said rear brace 19 extending between beams 10 and 16. The intermediate brace 18 extends from beam 10 to a short beam 20 which, with a parallel beam 21 spaced therefrom, extends between the beams 12 and 16 adjacent their connected ends and parallel with the landside or guide beam 10, these short beams 20 and 21 supporting a short transverse shaft on which is journaled a wheel 22 adapted to contact with the road surface and very slightly raise the rear end of the smoothing beam 12.

The hauling chain 23 has hooks 24 upon its ends, one of which is adapted to straddle the forward brace 17 and be adjusted therealong to proper position, and the other adapted to engage the portion of bolt 15 between beams 10 and 12. This hauling chain, as shown, also has an intermediate clevis 25 to which a double-tree 26 may be attached.

Flooring, in the form of spaced planks 27 secured along both sides of the braces 17, 18, and 19, completes my device, and it will be seen from the foregoing that, in addition to its advantages with respect to simplicity and inexpensiveness, it is self-guiding and may be reversed at will in order that the guide beam may be moved along the center of a road and first one side, and then the other, of the road may be smoothed in the same direction, by using first one side, and then the other, of my improved device.

I claim:

1. A road smoother comprising a longitudinally extending land side or guide beam, a smoothing beam extending angularly and rearwardly at one side of said guide beam and having its forward end lapping the forward end thereof, a brace beam extending angularly between the rear ends of said smoothing beam and guide beam, a roller mounted adjacent the connection of said smoothing and brace beams and projecting slightly above and below the several beams, and blades secured upon the outer surfaces, and along the upper and lower edges of said guide and smoothing beams, all for the purpose of forming a reversible structure.

2. A road smoother comprising a longitudinally extending land side or guide beam, a smoothing beam extending angularly and rearwardly at one side of said

guide beam and having its forward end
lapping the forward end thereof, a brace
beam extending angularly between the rear
ends of said smoothing beam and said guide
5 beam, a bolt extending between and through
said guide and smoothing beams adjacent
their connected ends, braces extending be-
tween said guide and smoothing beams
rearwardly of said bolt, and a hauling

chain having an intermediate clevis and 10
end hooks to adjustably engage upon said
bolt and the forward brace.

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

HENRY C. BARNETT.

Witnesses:

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