

902,139.

Fig. 1.

Fig. 2.

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UNITED STATES PATENT OFFICE.

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ATTACHMENT FOR ROAD-MACHINES.

No. 902,139.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN T. EADY, a citizen of the United States, residing at Carrollton, in the county of Carroll and State of Georgia, have invented a new and useful Attachment for Road-Machines, of which the following is a specification.

The invention relates to an attachment for road grading and scraping machines.

The object of the present invention is to provide means adapted to be readily applied to the scraper of a road machine, and capable of enabling the latter to tear down embankments at the side of a road, and effectually tear up gravelly and other hard ground.

With these and other objects in view, the invention consists in the construction and novel combination of parts hereinafter fully described, illustrated in the accompanying drawing, and pointed out in the claims hereto appended; it being understood that various changes in the form, proportion, size and minor details of construction, within the scope of the claims, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:—Figure 1 is a perspective view of a scraper provided with an attachment, constructed in accordance with this invention. Fig. 2 is a horizontal sectional view of the same. Fig. 3 is a vertical sectional view on the line 3—3 of Fig. 2.

Like numerals of reference designate corresponding parts in all the figures of the drawing.

1 designates a plurality of brackets, consisting preferably of malleable castings and mounted on a scraper 2 at the rear end thereof, and located at the center and end portions of the scraper, as clearly illustrated in Fig. 1 of the drawing. The brackets, which are sectional, are provided at their inner or front ends with laterally projecting flanges 3, which are pierced by suitable fastening devices 4 for securing the brackets to the scraper. The outer or rear ends of the brackets are equipped with removable plates or sections 5, secured to the body portions of the bracket by means of bolts 6, or other suitable fastening devices. The body portions of the brackets are bifurcated at their rear ends to form aligned horizontal openings 7 for the reception of a horizontally disposed bar or member 8, which is

secured in the openings by the rear plates or sections 5.

The bar or member 8, which has pointed terminals 9, is adjustable longitudinally of the scraper 1, so as to project a greater or less distance from either end of the scraper. The projecting portion of the bar or member 8 is adapted to penetrate and tear down an embankment at one side of a road to obviate the necessity of removing the embankment by pick and shovel.

In order to prevent the end of the scraper from catching into an embankment and impeding or interfering with the forward movement of the machine, the attachment is equipped with a guard 10, disposed longitudinally of the machine and extending in advance and in rear of the proximate end of the scraper and consisting of heavy sheet metal, or other suitable material. The guard, which is approximately oblong, is tapered at its front end and is provided with a rectangular opening 11 to receive the bar or member 8, which is square in cross section. The front tapered portion of the guard is provided with a chain 12, which in practice, is designed to be secured to the front axle of the machine. This will strengthen the connection between the frame of the machine and the excavating devices. The guard is detachable and is adapted to be transferred from one end of the scraper to the other. The bar or member 8 is slidable through the openings 7 to project it from either end of the scraper, and the said openings 7 are rectangular to conform to the configuration of the bar or member.

In order to enable the scraper to tear up gravelly and other hard ground, it is equipped with a plurality of vertically adjustable digging bars or teeth 13, extending below the lower edge of the scraper and provided with rectangular shanks 14, extending through vertical openings 15 of the brackets and secured in their adjustment by upper and lower collars 15*. The vertical openings of the brackets are rectangular to conform to the configuration of the squared shanks 14, and the collars, which are located at the upper and lower faces of the brackets, are equipped with set screws 16 for securing them to the shanks 14. The lower engaging ends of the bars or teeth 13 are tapered and pointed, but may be shaped in any preferred manner to enable them to readily penetrate

and tear up hard ground. The vertically adjustable bars or teeth and the horizontal bar 8, which may be constructed of any suitable material, are preferably made of steel.

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

1. The combination with a scraper, of a bar or member extending longitudinally of the scraper and arranged to project from
10 either end of the same for tearing down embankments at the side of a road, and means for adjustably securing the bar or member to the scraper.

15 2. The combination with a scraper, of a bar or member extending longitudinally of the scraper and having pointed terminals and slidably connected with the scraper so as to project from either end thereof.

20 3. The combination with a scraper, of a bar or member disposed longitudinally of the scraper and projecting from one end thereof for tearing down an embankment at the side of a road, and a guard arranged at the end of the scraper from which the bar
25 or member projects to prevent the said end of the scraper from catching in an embankment.

30 4. The combination with a scraper, of a bar or member disposed longitudinally of the scraper and projecting from one end thereof for tearing down an embankment at the side of a road, and a guard consisting of a plate arranged at the end of the scraper
35 from which the bar or member projects and extending in advance and in rear of the scraper.

40 5. The combination with a scraper, of a bar or member disposed longitudinally of the scraper and projecting from one end thereof for tearing down an embankment at the side of a road, and a guard consisting of a plate provided with an opening receiving the bar or member, said guard being extended in advance and in rear of the scraper.
45

50 6. The combination with a scraper, of a bar or member disposed longitudinally of the scraper and projecting from one end thereof for tearing down an embankment at the side of a road, a guard consisting of a plate provided with an opening receiving the bar or member, said guard being extended in advance and in rear of the scraper, and a chain connected with the front end
55 of the guard.

60 7. The combination with a scraper, of a bar or member disposed longitudinally of the scraper and adapted to project therefrom for tearing down embankments, and a plurality of brackets mounted on the scraper

and provided with openings to receive the bar or member and adjustably supporting the same.

8. The combination with a scraper, of a plurality of brackets mounted thereon and
65 provided with alined horizontal openings and having vertical openings, a bar or member arranged to extend through the horizontal openings and adapted to project from either end of the scraper, and vertically ad-
70 justable bars or teeth adjustably mounted in the vertical openings and projecting below the lower edge of the scraper.

9. An attachment for road scrapers comprising a plurality of brackets, a horizontal
75 bar or member adjustably supported by the brackets and having terminal engaging portions, a guard carried by the bar or member, and vertically adjustable bars or teeth also mounted on the brackets.
80

10. The combination with a scraper, of a bar or member adjustably mounted on the scraper to project from either end thereof, and a reversible guard located at the end
85 of the scraper from which the bar or member projects and adapted to be changed from one end of the scraper to the other.

11. The combination with a scraper, of a bar or member adjustably mounted on the scraper to project from either end thereof,
90 and a reversible guard located at the end of the scraper from which the bar or member projects and adapted to be changed from one end of the scraper to the other, said guard being supported by the bar or member.
95

12. The combination with a scraper, of a bar or member extending longitudinally of the scraper and slidably connected therewith so as to project from either end thereof.

13. The combination with a scraper, of a
100 plurality of spaced teeth or bars mounted on the scraper blade at the back thereof and depending below the lower edge of the said scraper blade.

14. The combination with a scraper, of a
105 plurality of brackets secured to the scraper at the rear face thereof and spaced apart, vertically adjustable bars or teeth mounted in the brackets and depending below the lower edge of the scraper, and means for
110 securing the bars or teeth in their adjustment.

In testimony, that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN T. EADY.

Witnesses:

J. S. BARTRIGHT,

H. L. ROWE.