June 1, 1937. J. R. GODFREY 2,082,283

SCARIFIER TOOTH

Filed March 10, 1936

Fig. 1.

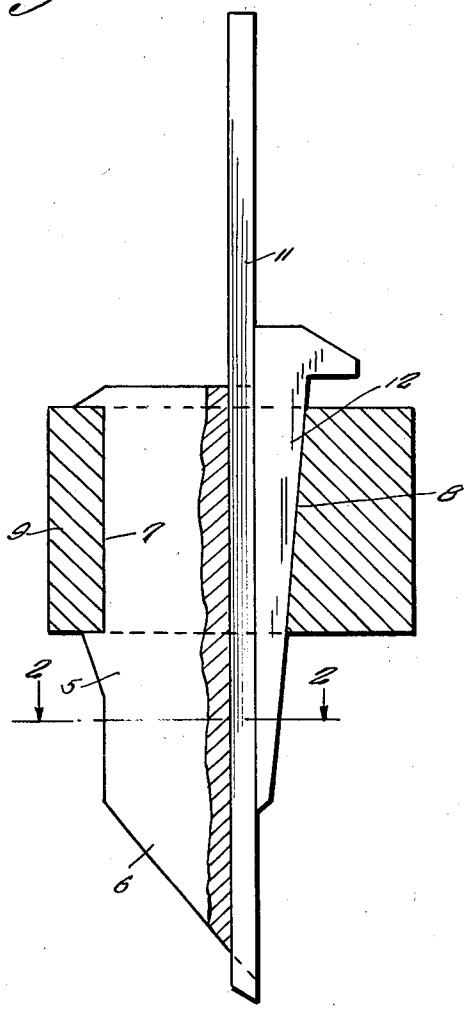


Fig. 3.

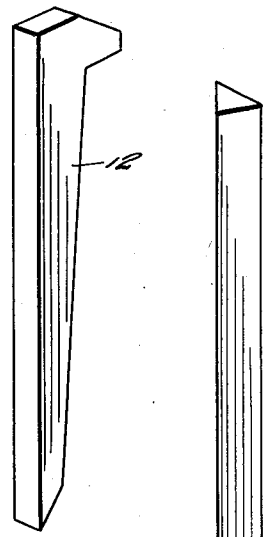




Fig. 4.

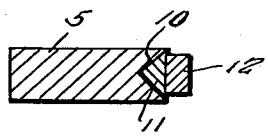


Fig. 2.

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SCARIFIER TOOTH

Joseph R. Godfrey, Concrete, Wash.

Application March 10, 1936, Serial No. 68,106

1 Claim. (Cl. 262—33)

This invention relates broadly to road grading or scraping machines and more particularly to an improved scarifier tooth therefor.

At the present time much difficulty and expense is encountered in the maintenance of road graders due to the fact that the points of the scarifying teeth wear quickly and when these teeth become blunt they are of little or no value.

Also due to the cost not only of the scarifier tooth, but the cost of having the same redrawn for the purpose of placing the tooth in shape for re-use maintenance of road graders is of great expense.

An object of the present invention is to provide a scarifying tooth having an adjustable point.

A further object of the invention is to provide a scarifying tooth whereby the main body of the same may be made from a cheaper metal and the tooth part only thereof from a more expensive metal so that the cost of replacing the point when it is no longer fit for use will be much less than at the present time.

The invention together with its objects and advantages will be best understood from a study of the following description taken in connection with the accompanying drawing wherein:

Figure 1 is a view partly in section and partly in elevation illustrating the application of the invention.

Figure 2 is a sectional view taken substantially on the line 2—2 of Figure 1.

Figure 3 is a perspective view of a wedge pin.

Figure 4 is a perspective view of the adjustable point.

Referring to the drawing by reference numerals it will be seen, that in the preferred embodiment thereof the improved scarifier tooth comprises a body member 5 of suitable shape and dimension and which can be made from mild steel at less expense than has heretofore been possible with scarifying teeth. The body 5 at the point equipped end thereof is beveled as at 6, and adjacent its upper end in one longitudinal edge thereof is provided with a groove 7 to receive a portion of the wall of the opening 8 usually provided therefor in the bracket 9 with which the grader is equipped for attachment of a scarifying tooth thereto.

Further in accordance with the present invention at the edge thereof of greatest length the tooth body 5 is provided for the full length thereof with a substantially V-shaped groove 10.

Groove 10 is adapted to slidably accommodate an elongated substantially triangular bar 11 which in the present instance serves as the point for the tooth.

Bar 11 is preferably formed of tool steel and is of a length materially greater than the length of the body of the tooth 5 as shown.

The bar 11, as the lower working end thereof wears, may be readily adjusted longitudinally relative to the tooth body 5 and is secured at the desired adjustment through the medium of a wedge pin 12 which wedges itself between the exposed flat face of the tooth member 11 and the inclined wall of the opening 8 provided in the tooth supporting bracket 9 as clearly shown in Figure 1.

Obviously as the lower end of the tooth member 11 wears wedge 12 is pulled upwardly through the opening 8 thus permitting the tooth bar 11 to be slid downwardly to the proper adjustment after which the wedge 12 is forced back into position.

It will thus be seen that the wedge 12 together with the groove 7 in the body of the tooth 5 will serve to fixedly secure the tooth within the opening of the bracket 9 as well as to secure the point element 11 at the desired adjustment.

From the above it will be seen that I have provided a form of scarifier tooth which may be cheaply and economically constructed and wherein wear on the point thereof can be readily compensated by a quick adjustment of the member 11 forming the point section of the tooth.

Having thus described the invention, what is claimed as new is:

The herein described improvement in road grader scarifying tooth construction, comprising essentially an apertured supporting bracket, a tooth body removably arranged in the aperture of the bracket and having in one of its edges a groove receiving one wall of the bracket aperture and also having in its opposite edge and extending throughout the length thereof a groove of V-shape in cross section, an adjustable point member triangular in cross section and slidably arranged in said groove of the body, and a wedge pin disposed in the aperture of the bracket and interposed between the adjustable point and the opposed wall of the aperture in the bracket, said wall being inclined downward and inwardly and arranged opposite the aperture wall received in the first-named groove of the tooth body.

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