June 5, 1956 V. SCHIAVI 2,748,508

ATTACHMENT FOR ROADGRADER GAUGES

Filed March 20, 1952

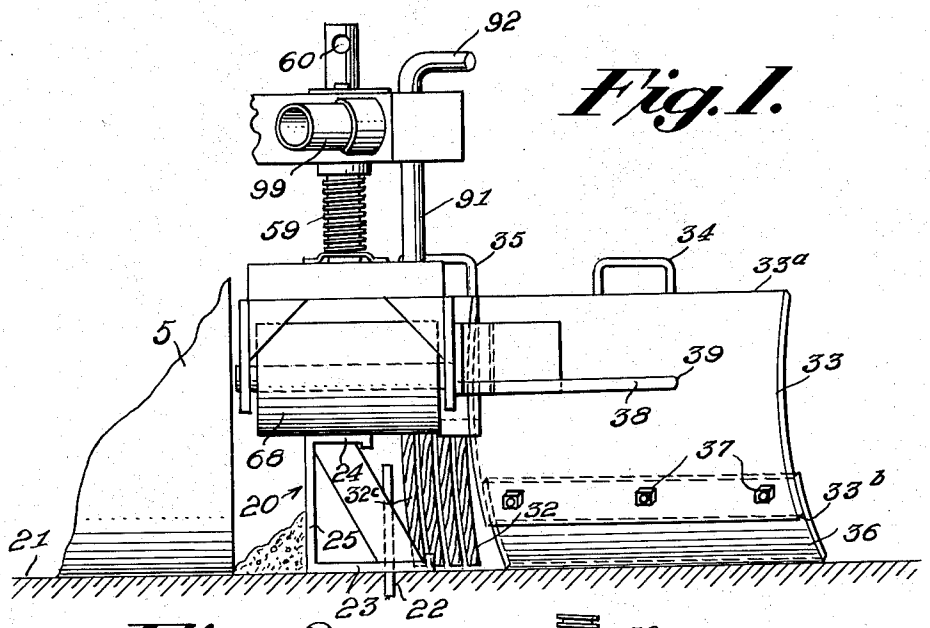
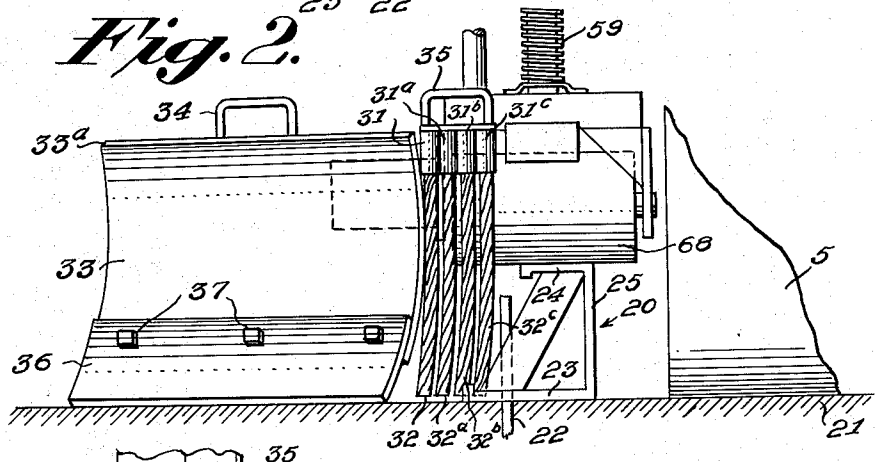


Fig. 1.

Fig. 2.



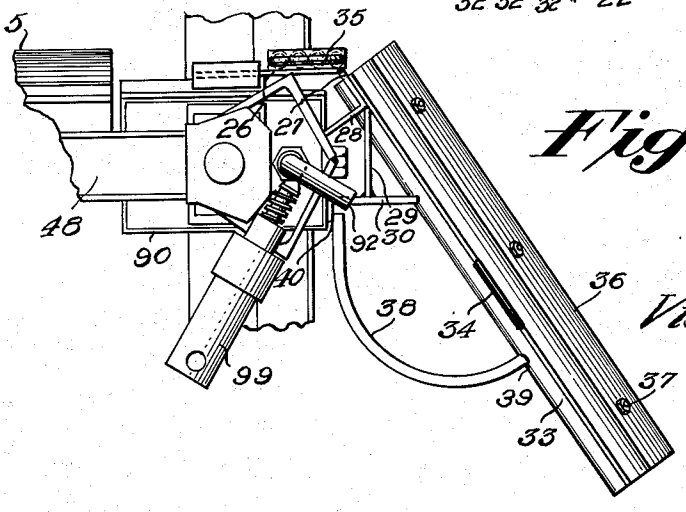


Fig. 3.

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United States Patent Office

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ATTACHMENT FOR ROADGRADER GAUGES

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Application March 20, 1952, Serial No. 277,571

1 Claim. (Cl. 37—103)

The instant invention relates to an attachment for roadgrader gauges and more particularly to an extension wing attachable to a roadgrader gauge for cleaning the spill from a form on which the roller of the gauge rides.

A primary aim of the invention is the construction of an extension wing of the character specified, which functions as a dirt-clearer to remove the spilled material adjacent the form to leave the latter free, thus obviating the use of much of the manual labor formerly required for this operation.

Still another object is the making of a dirt-clearer of the type indicated which includes both wire rope sweeper members, and a main dirt-clearer extension or wing.

An additional purpose is the manufacture of an attachment of the class referred to above which is sturdy and effective in use, requires but few parts and is of relatively small cost.

The above and other aims and objects will be apparent from the detailed description hereinafter appearing when taken in conjunction with the appended drawing forming a part hereof and showing a preferred embodiment of the invention and in which like numerals in the several views represent like parts and in which

Figure 1 is a rear elevational view of the attachment of the instant invention operatively secured to a roadgrader gauge, the latter shown partially broken away.

Figure 2 is a front elevational view of the attachment of Figure 1; and

Figure 3 is a top plan view.

The extension dirt-clearer wing constituting the present invention is primarily, although not necessarily, adapted for attachment to and for cooperation with the gauge shown and described in my prior patent, No. 2,467,157, issued April 12, 1949, and attention is directed thereto.

Turning to Figure 1 on the instant drawing, it will be noted that some of the structure of the patent referred to has been reproduced. Thus the reference character 5 designates the scraper blade of a subgrader and the reference numeral 59 the square thread screw; 60 the tool manipulating aperture thereof; 68 the heavy cylindrical roller; 48 the elongated bar; 99 the operating cylinder; 92 the handle of the pin 91, and 90 the roller frame; the reference characters for these parts being the same as in said patent.

As will be understood, roller 68, in working condition of the gauge rides on a rail or form 20 secured to the roadbed 21 by spaced pins 22 passing through a horizontal bottom leg 23 while the roller rides on an upper horizontal leg 24 of said form; the horizontal legs being secured together by a vertical leg 25. As a matter of fact, these forms are made of structurally integral channel iron. Welded or otherwise secured to roller frame 90 are brackets 26, 27, 28, 29, and 30, see Figure 3. A series of adjacent tubular sleeves 31, 31a, 31b, and 31c are fixed to bracket 26 as by welding or the like. Each sleeve carries a pendant wire cable sweeper member 32, 32a, 32b, 32c, respectively, which when operating will

ride in the vicinity of rail 20 and particularly leg 23 and pins 22 thereof. It will be noted that brackets 27, 28, 29 and 30, constitute a continuation of bracket 26 for mounting an outside dirt-clearer blade or wing 33, the latter having a handle 34 fastened to the upper horizontal edge 33a thereof; a similar handle 35 being secured to the upper surface of the sleeves, aforementioned, said handles for use in transporting the dirt-clearer attachment. Blade or wing 33 is concave, as shown, and the lower horizontal edge 33b thereof is provided with a renewable scraping edge member 36, as by spaced bolts and nuts 37. Turning to Figure 3 again, it will be seen that blade 33 is angularly disposed with reference to the wire rope sweeper elements 32, 32a, 32b, and 32c. Additional reinforcements for the blade may be attained by means of a curved bar 38 secured to the rear of the blade as at 39 and to the roller frame as at 40.

A rough road-bed grading machine in operation has a gauge attached to each end of the scraper 5 thereof, all as described in my patent, above identified. The scraper as it moves along the roadbed 21 tends to deposit a considerable quantity of the gravel, sand, dirt or the like, or spill, on an adjacent form or rail 20. This interferes with the efficient action of roller 68 riding on said rail. Such an undesirable condition is now obviated by means of the heavy wire cable sweeper elements 32, 32a, 32b and 32c which travel sufficiently in advance of the roller to sweep the bulk of the spill laterally into the path of travel of dirt-clearer blade 33, the latter then effectively removing the same. The cable elements being somewhat flexible will yield when touching any part of the form 20 or the pins 22 thereof. This would not be true if the blade or extension 33 was continued into the neighborhood of said form. By providing a renewable scraping edge 36 the life of the dirt-clearer extension is considerably prolonged.

From the above, it will now be seen that I have fabricated an attachment well adapted to perform its intended function. Various minor changes may be made in the disclosure as will be apparent to those skilled in the art. It is contemplated to cover all such and to be limited in this respect only as may be necessary by the scope of the claim hereto appended.

What I claim and desire to secure by Letters Patent is:

An attachment for the gauge of a road grader, said gauge having a frame and a roller for riding on a road form, comprising a plurality of brackets secured to said frame and extending laterally thereof, one of said brackets having a plurality of adjacent sleeves affixed thereto, each of said sleeves having a wire cable sweeper member fastened therein and projecting in pendant position therefrom in laterally spaced relation to said road form, the other of said brackets carrying a concave dirt-clearer blade in angular and laterally spaced relationship to said cable sweeper members, the latter sweeping dirt into the path of travel of the blade in operative condition of the attachment.

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