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SAWING UNIT ATTACHMENT FOR TRACTORS

Filed April 17, 1926

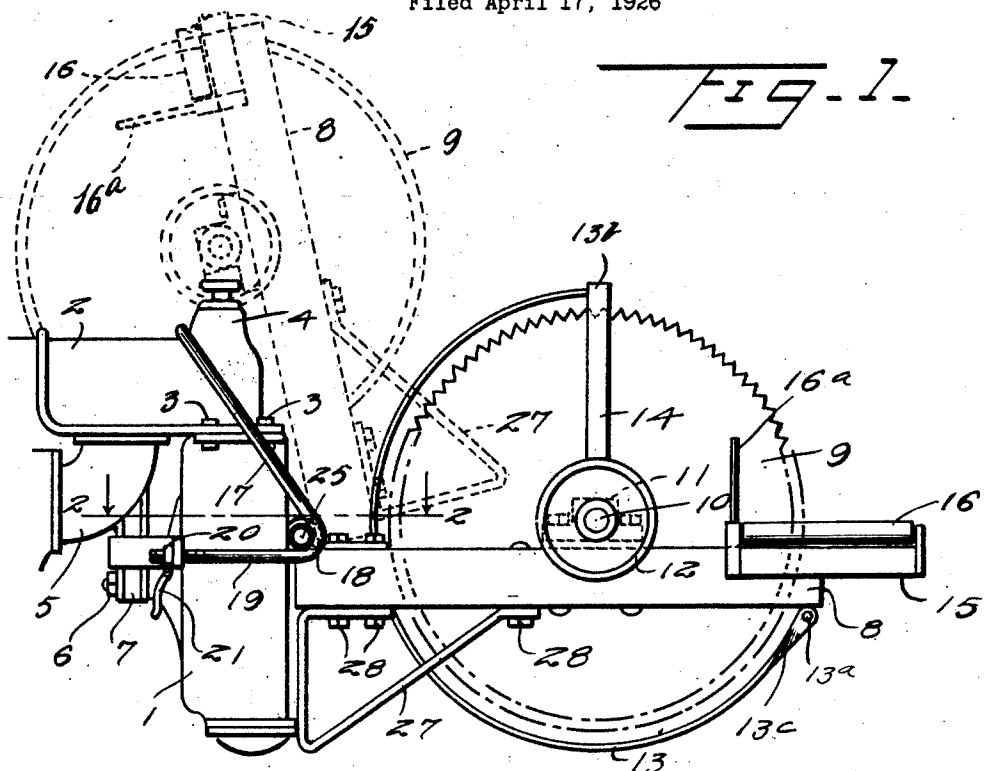


Fig. 1.

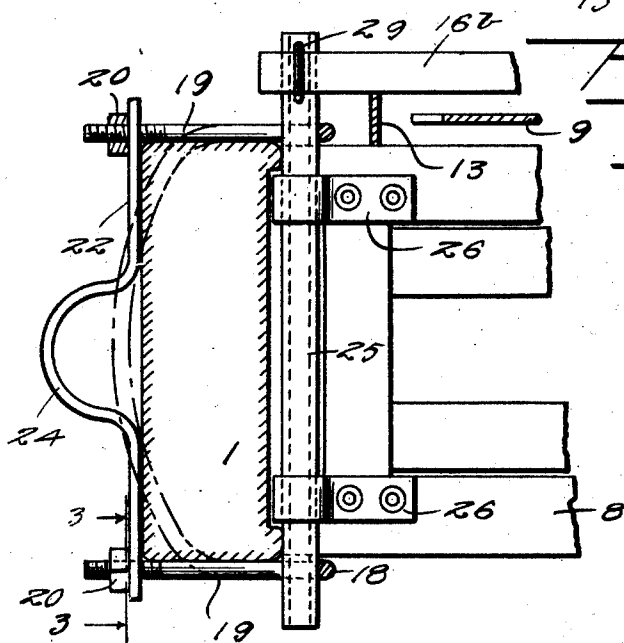
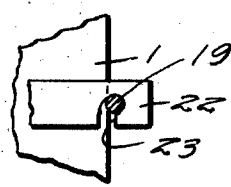


Fig. 2.

Fig. 3.



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SAWING-UNIT ATTACHMENT FOR TRACTORS.

Application filed April 17, 1926. Serial No. 102,725.

This invention relates to a wood sawing attachment for tractors and embodies a sawing unit and means for securing the sawing unit to a tractor.

8 The invention has for one of its objects to provide an attachment of the character stated wherein the securing means shall be especially adapted to support the sawing unit solely from and at the front side of the radiator of a Fordson tractor without making any changes in or alterations to the radiator and without the aid of bolts.

15 A further object of the invention is to provide an attachment of the character stated wherein the securing means shall be adapted for ready application to or removal from the radiator of the tractor and adapted to permit the sawing unit to be swung upwardly out of the way when it is desired to crank the engine of the tractor.

20 A still further object of the invention is the provision of an attachment of the character stated wherein the securing means shall be adapted to permit the sawing unit to occupy an upwardly folded position against the radiator when not in use.

25 With the foregoing and other objects in view, the invention consists of the construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawing, wherein:

35 Figure 1 is an elevational view illustrating the application of the sawing attachment to the radiator of a tractor,

Figure 2 is a sectional view taken on the horizontal plane indicated by the line 2—2 of Figure 1, and

40 Figure 3 is a detail sectional view taken on the vertical plane indicated by the line 3—3 of Figure 2.

Corresponding and like parts are referred to in the following description, and designated in the several views of the accompanying drawing, by similar reference characters.

45 In the drawing, 1 designates the radiator and 2 the water tank of a Fordson tractor. The radiator 1 communicates with the tank 2 and is secured thereto by bolts 3. The tank 2 is provided with a filling spout or neck 4, and is in communication with the water jacket of the engine by way of an elbow 5. The radiator 1 is secured by means of a stud 6 to a lug 7 depending from the elbow 5. 55 These parts are of well known construction, and are shown merely for the purpose of il-

lustrating the application of the sawing attachment.

The sawing unit is adapted to be supported from and in advance of the radiator 1, and 60 comprises a frame 8 and a circular saw 9. The saw 9 is fixed to a mandrel 10 which is journaled in bearings 11 carried by the frame 8. A pulley 12 is fixed to the mandrel 10 to permit the saw 9 to be driven by a belt, 65 not shown, extending from the power take-off pulley not shown, of the tractor. A one piece guard 13 of flat metal and extending about the lower and rear sides of the saw 9, is secured as at 13^a to the front end of the 70 frame 8 and as at 13^b to the upper end of a support 14 extending upwardly from the frame. The lower front end portion 13^c of the guard 13 is disposed at an angle to the remainder thereof, and this portion is adapt- 75 ed to prevent the saw dust from following around the saw 9. A carriage 15 provided with rollers 16 and stops 16^a, is slidably mounted upon the frame 8. A guard rail 16^b positioned at the outer side of the saw 9, 80 is fixed at its front end to the carriage 15 and is movable therewith. In practice, the bearings for the arbor 10 will be provided with force feed lubricators, and all parts of the sawing unit will be made of metal. 85

The means for securing the sawing unit in place comprises a yoke 17 which embraces the radiator 1 and tank 2 and occupies a downwardly and forwardly inclined position on these parts. The right or upper portion of 90 the yoke 17 is located in rear of and contacts with the filling neck or spout 4, and the side portions of the yoke are located at the lateral sides of the radiator 1 and tank 2. The side portions of the yoke 17 are bent to provide 95 loops 18 located at the front side of the radiator 1 and rearwardly directed arms 19 located at the lateral sides of the radiator. The rear end portions of the arms 19 are screw threaded for the reception of nuts 20 provided with 100 handles 21. A bar 22 which is provided adjacent its ends with openings 23 for the reception of the ends of the arms 19 and intermediate its ends with an offset portion 24 for the reception of the lug 7, contacts 105 with the rear sides of the radiator 1 and lug and functions in conjunction with the filling neck or spout 4 to prevent the yoke 17 from having any forward movement with respect to the radiator 1 and tank 2. The 110 bar 22 is secured to the arms 19 by the nuts 20. A tubular bar 25 is positioned in the

loops 18 and contacts with the front side of the radiator 1 and functions as a hinge pintle for the sawing unit and to prevent the yoke 17 from having any rearward movement with respect to the radiator 1 and tank 2. The frame 8 of the sawing unit is connected to the bar 25 by hinge straps 26, and the frame is adapted to be supported in horizontal position by brackets 27 which are secured to the under side thereof as at 28 and contact with the front side of the radiator 1. The rear end of the guard rail 16^a slidably passes through an eye 29 carried by the bar 25.

From the foregoing and accompanying drawing, it will be understood that the sawing unit is hingedly supported from and at the front side of the radiator 1, that it is adapted to be supported in horizontal position for use by the yoke 17, bar 25 and brackets 27, and that it may be supported in an upwardly and rearwardly inclined position against the radiator 1 when not in use. As the sawing unit is pivotally supported, it may be readily raised out of the way when it is desired to crank the engine of the tractor. The means for securing the sawing unit in place is simple, durable and efficient, may be readily applied and removed, and involves a structure which obviates the necessity of the use of bolts and may be readily applied without making any changes or alterations in the radiator and associated parts. In Figure 1 the sawing unit is shown by solid lines in position for use and by dotted lines in folded position. The sawing unit is so firmly supported when in position for use

as to obviate the necessity of the use of ground engaging props or legs or the like.

It should be understood that the drawing is merely illustrative and does not pretend to give exact proportions. Furthermore, the said drawing is illustrative of a preferred construction, it being my expectation that various changes and modifications may be made without departing from the spirit and scope of my invention.

What is claimed is:—

1. In combination, a tractor, a yoke embracing and suspended from the radiator of the tractor, means cooperating with the yoke and radiator to secure the yoke against rocking movement on the radiator, a sawing unit pivotally connected to said means, and members secured to the sawing unit and contacting with the radiator to limit the pivotal movement of the sawing unit in a downward direction.

2. In combination, a tractor, a yoke suspended from the radiator of the tractor and having its side portions positioned at the lateral sides of the radiator, said side portions being provided at their lower ends with forwardly extending loops and rearwardly extending arms, a bar secured to the arms and contacting with the rear side of the radiator, a bar carried by the loops and contacting with the front side of the radiator, said bars holding the yoke against rocking movement on the radiator, and a sawing unit connected to the yoke.

In testimony whereof I affix my signature.

HENRY J. BYRNE.