Jan. 31, 1928. 1,657,747

E. HALMET

TRACTOR ATTACHMENT

Filed Sept. 13, 1926

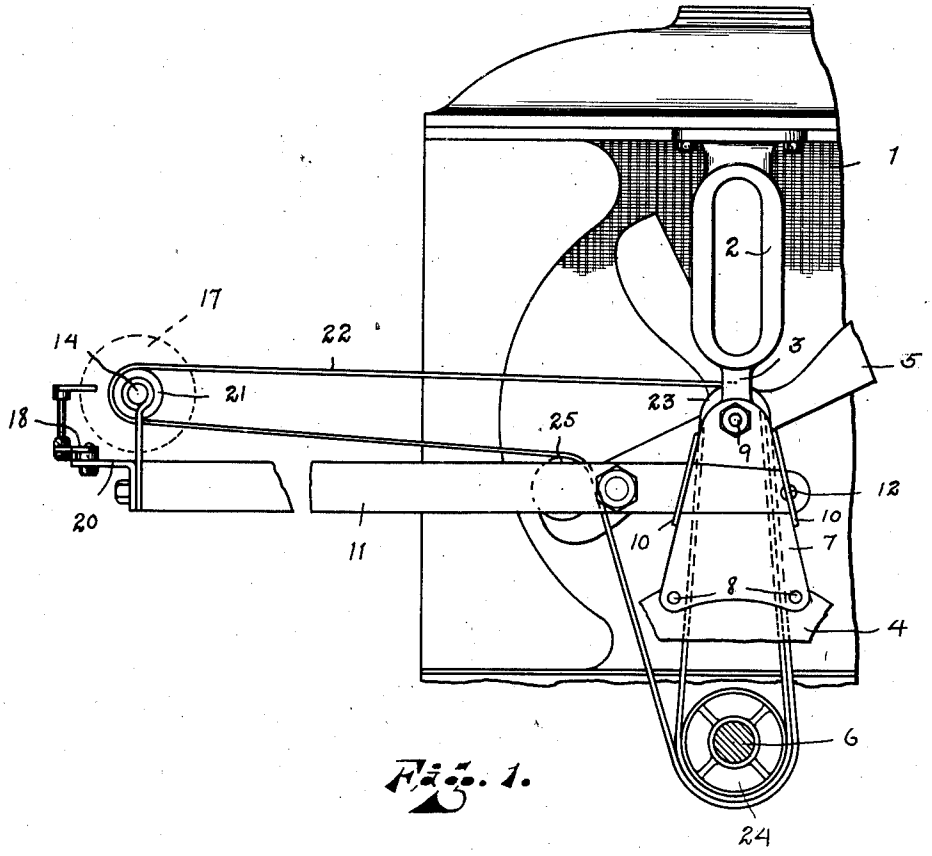


Fig. 1.

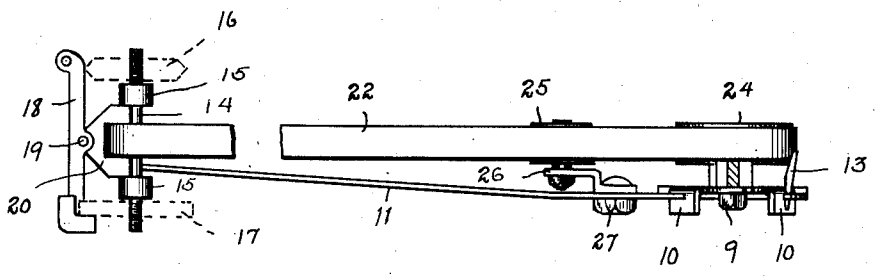


Fig. 2.

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TRACTOR ATTACHMENT.

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This invention relates to attachments for tractors, and is particularly designed for the purpose of providing convenient means for grinding and sharpening farm implements.

The principal object is to provide means whereby such a device may be quickly applied to or removed from a tractor when desired.

Another object is to provide such means that may be made to function without any alteration or adjustment of any part of the tractor mechanism.

Further objects and advantages of the invention will appear in the following description thereof.

Referring now to the accompanying drawing, forming part of this application, wherein like reference characters indicate like parts:

Figure 1 is a rear elevation of a fragmental portion of a tractor radiator and fan attachment showing the device as applied thereto; and

Figure 2 is a top plan view of Figure 1.

1 represents the radiator of, for example, a Fordson tractor, and 2 is the radiator top tank connection to the lower extremity of which is integrally formed the fan bracket 3, while 4 represents a fragmental portion of the forward end of the crank case of the engine, and 5 is the fan, all of which are common to such tractors, as well as the engine shaft 6.

The invention resides in placing the bracket 7, which is preferably of sheet metal construction, intermediate of the crank case of the engine and the fan bracket, the same being held in position by preferably two bolts 8 of the crank case, and the fan shaft 9. The bracket 7 is preferably of somewhat inverted V-shape, having a flange 10 upon either side thereof adjacent its upper end, and through which flanges are formed slots, the innermost edges of which are in the same plane with the adjacent face of the body portion of the bracket.

The bracket is designed to be placed in position and there remain whether the grinding attachment is used or not. The latter comprises the arm 11, which may be of any desired length but sufficient at least to extend considerably beyond the side of the tractor radiator, and the inner end of which is so shaped as to fit tightly within the slots in the wings 10 of the bracket. For this purpose the slot in the nearer wing is somewhat greater in depth than that in the farther wing, so as to properly register with the tapered end of the arm, as clearly seen in Figure 1 of the drawings. In the extreme inner end of the arm 11 is formed a through hole 12 for the reception of the tapered holding pin 13, it being half round on one side and flat on the other, so that when driven into the hole 12 with the flat side against the outer face of the inner flange 10 it will draw the arm 11 tightly into position in the slots of the wings. When it is desired to remove the grinding attachment all that is necessary to loosen same for the removal of the drive belt is to withdraw the pin 13.

Upon the outboard or free end of the arm 11 is mounted preferably the transverse arbor or spindle 14, it having any suitable arrangement of spaced bearings as those shown at 15, and abrasive wheels such as indicated at 16 and 17 may be employed upon either end of the arbor, as desired. A transverse guide illustrated at 18 may be pivotally mounted as at 19 upon the bracket 20 attached to the free end of the arm 11.

The pulley upon the arbor 14 is illustrated at 21, and about which the belt 22 is operable and sufficiently long to reach over the fan pulley 23 downwardly about the pulley 24 on the engine shaft 6, and up and over the idler pulley 25 carried upon the adjustable Z-shaped bracket 26, attached securely to the arm 11 by means of the bolt 27.

While I have shown and described a specific form of device which has proven satisfactory in operation, it is to be understood that various modifications of the device may be resorted to without departing from the spirit of the invention, and, what I claim and desire to secure by Letters Patent, is:

1. The combination with a vehicle engine having a fan operating mechanism, of supporting means intermediate of the fan and engine, a second supporting means removably mounted upon the first mentioned supporting means, an arbor in the free end of the second mentioned means, and a belt for operating said arbor operable upon and by the fan operating belt.

2. A tool grinding attachment for tractors comprising in combination an upright bracket intermediate of the engine and fan shaft, a laterally extendable arm removably attached to said bracket, a tool head carried upon the outer extremity of the arm, and

a belt surrounding the fan belt for driving the tool head.

3. The combination with a vehicle engine having a fan operating mechanism including a belt and an arbor support extending laterally of said mechanism, of means including a belt whereby the latter is operable upon and by the fan belt for driving the arbor.

4. A tool grinding attachment for tractors comprising in combination an upright bracket, a laterally extending arm having a tapered end for insertion within spaced openings in the sides of the bracket, wedging means for tightly holding the tapered end of the arm within said bracket, a tool head carried upon the outer extremity of the arm, and means for operating said tool head.

In testimony whereof I affix my signature.

ELMER HALMET.