July 10, 1923. 1,461,598

W. J. WYLIE ET AL

EXTENSION FRAME FOR FORDSON TRACTORS

Filed July 3, 1922 4 Sheets-Sheet 1

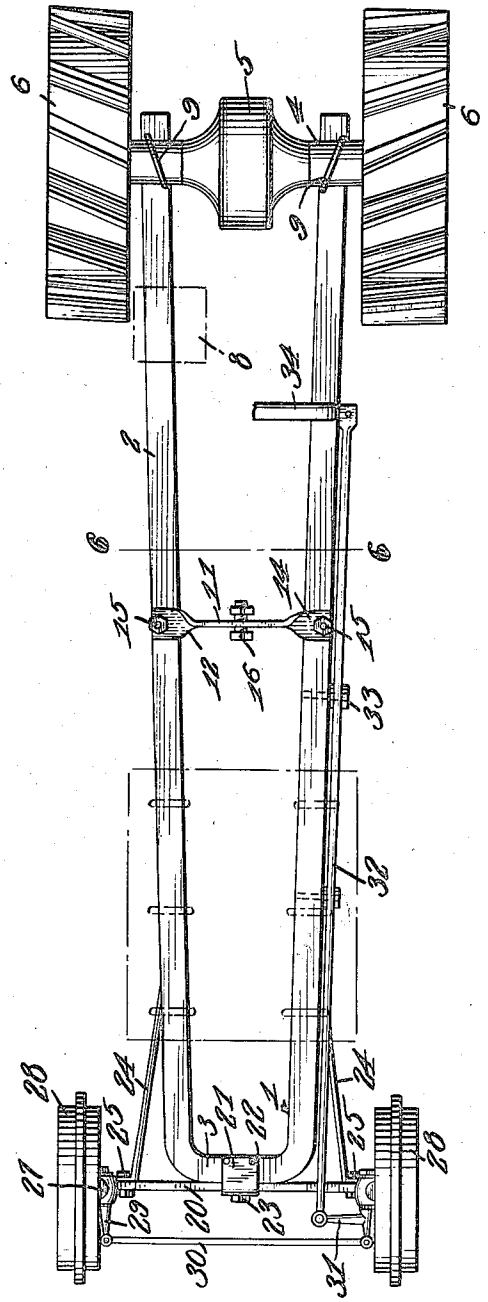


Fig. 1.

W. J. Wylie AND C. W. Cooper Inventor

By Cachow & Co.

Attorney

July 10, 1923. 1,461,598

W. J. WYLIE ET AL

EXTENSION FRAME FOR FORDSON TRACTORS

Filed July 3, 1922 4 Sheets-Sheet 2

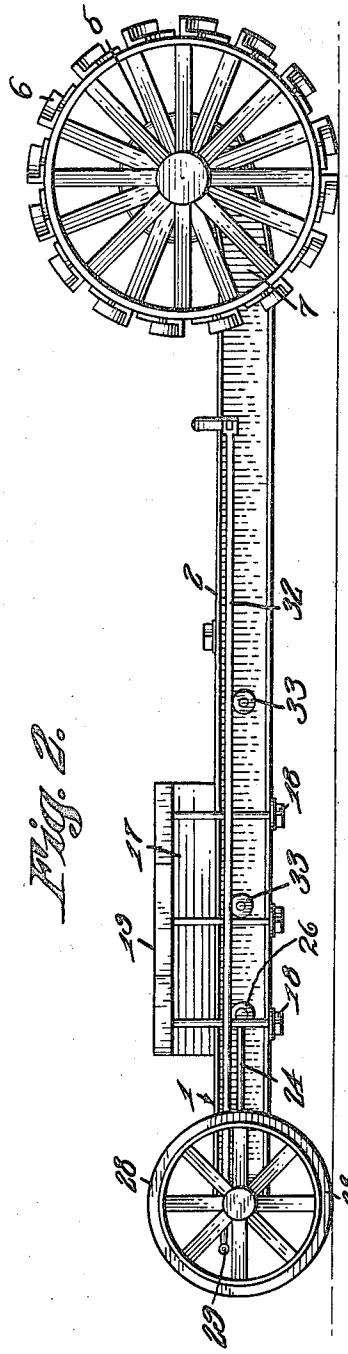


Fig. 2.

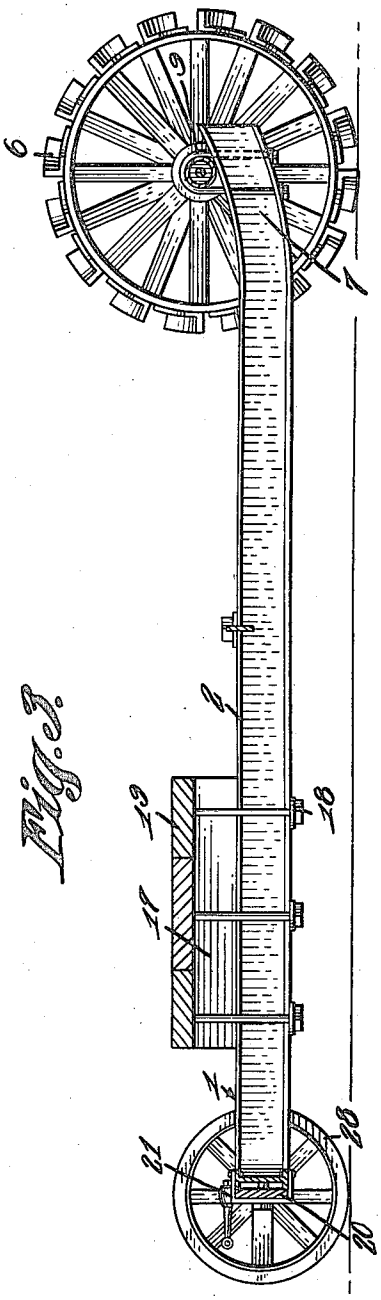


Fig. 3.

W. J. Wylie AND C. W. Cooper Inventor

By Chas. Shaw & Co.

Attorney

July 10, 1923. 1,461,598

W. J. WYLIE ET AL

EXTENSION FRAME FOR FORDSON TRACTORS

Filed July 3, 1922 4 Sheets-Sheet 3

Fig. 5.

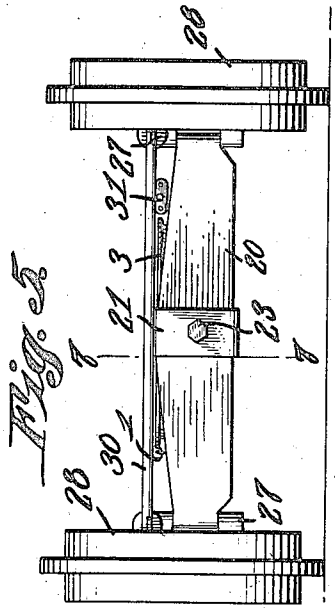
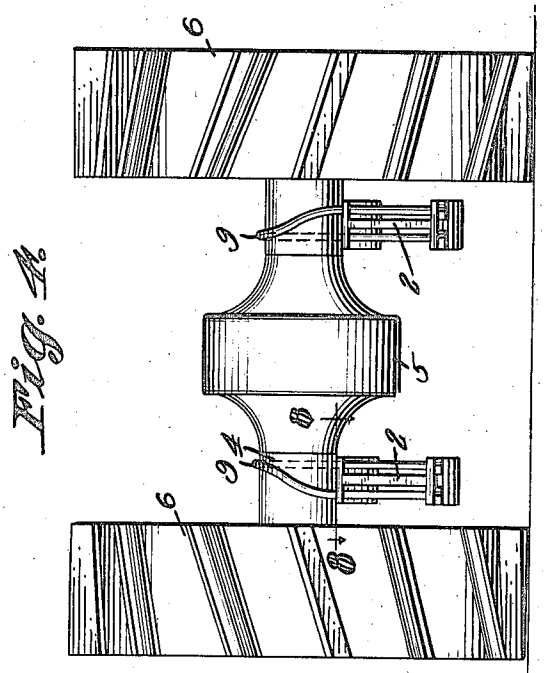


Fig. 4.



W. J. Wylie, Inventor
AND
C. W. Cooper

By C. A. Snow & Co.
Attorney

July 10, 1923. 1,461,598

W. J. WYLIE ET AL

EXTENSION FRAME FOR FORDSON TRACTORS

Filed July 3, 1922 4 Sheets-Sheet 4

Fig. 8.

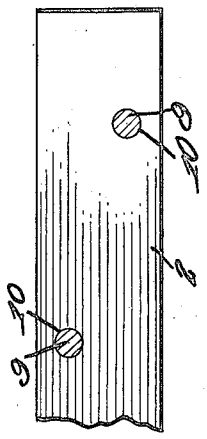


Fig. 7.

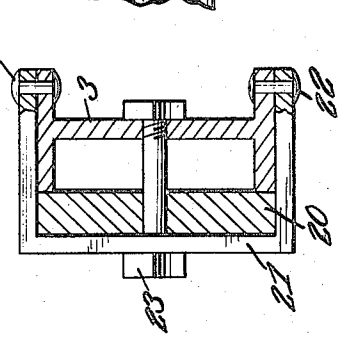
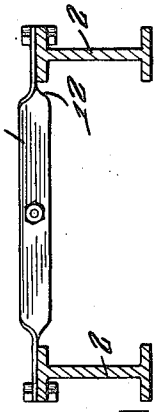


Fig. 9.



Inventor

W. J. Wylie AND C. W. Cooper

By C. A. Snow & Co.

Attorney

Patented July 10, 1923. 1,461,598

UNITED STATES PATENT OFFICE.

WILLIAM JEROME WYLIE, OF COLUMBIA, MISSISSIPPI, AND CLARENCE WINSTON COOPER, OF OXFORD, ALABAMA; SAID COOPER ASSIGNOR TO GEORGE WILLARD GREEN, OF COLUMBIA, MISSISSIPPI.

EXTENSION FRAME FOR FORDSON TRACTORS.

Application filed July 3, 1922. Serial No. 572,552.

To all whom it may concern:

Be it known that we, WILLIAM JEROME WYLIE and CLARENCE WINSTON COOPER, citizens of the United States, residing at Columbia and Oxford, in the counties of Marion and Calhoun, States of Mississippi and Alabama, respectively, have invented a new and useful Extension Frame for Fordson Tractors, of which the following is a specification.

This invention aims to provide a simple means whereby a Fordson tractor may be converted into an efficient and economical power plant, either stationary or portable, the resulting structure being useful to transport, drive and operate air compressors, pumps, hoists, pile drivers, saws, and any and all other machines capable of being operated by the prime mover of a Fordson tractor.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the invention appertains.

Although a preferred form of the invention is shown in the drawings, it will be understood that, within the scope of what is claimed, a mechanic may make changes in the structure shown and described, without departing from the spirit of the invention or avoiding the charge of infringement.

In the drawings:—

Figure 1 shows in top plan, a device constructed in accordance with the invention; Figure 2 is a side elevation; Figure 3 is a longitudinal section; Figure 4 is a rear elevation; Figure 5 is a front elevation; Figure 6 is a cross section on the line 6—6 of Figure 1; and Figure 7 is a section on the line 7—7 of Figure 5, parts being omitted; Figure 8 is a fragmental section on the line 8—8 of Figure 4.

In carrying out the invention, there is provided a U-shaped frame 1, which may be made out of an I-beam, the frame embodying rearwardly diverging side arms 2 and a connection 3 uniting the side arms at the forward ends thereof. The side arms 2 have downwardly and forwardly inclined rear ends 7, permitting the side arms to clear the pulley of the tractor, the pulley being shown diagrammatically and being designated by the numeral 8. The ends of the frame 1 extend beneath the rear axle casing 4, which forms part of the Fordson tractor, the differential casing appearing at 5, and the rear wheels being marked by the numeral 6. Openings 10 are formed in the upper flange of each side arm 2, at the rear end thereof, the openings being disposed on opposite sides of the web of the I-beam out of which the frame 1 is made. The lower flange of the I-beam is supplied with similar openings, and through the openings in the upper and lower flanges of the I-beam, securing elements 9, such as U-bolts, extend, the U-bolts straddling the web of the I-beam, and extending about the casing 4, to hold the casing on the rear ends 7 of the arms 2 of the frame 1.

A cross bar 11 is provided, and is twisted as at 12, to form feet 14, the feet resting on the side arms 2 of the frame 1, and being connected thereto by securing elements 15. An anchoring device 16, such as a bolt, is mounted on the cross bar 11, intermediate the ends thereof. The cross bar 11 aids in supporting the engine frame of the tractor, and the bolt 16 hold the engine frame on the cross bar.

Beams 17 extend longitudinally of the side arms 2 and are supported thereon, the beams being disposed adjacent to the forward end of the frame 1. Through the instrumentality of U-bolts 18 or the like, the beams 17 are held on the side arms 2, the beams supporting a platform 19, adapted to carry a pile driver, a wood saw, a grinding mill, or any other machine which is to be operated by the engine of the tractor.

The front axle of the tractor is marked by the numeral 20 and abuts against the forward or connecting portion 3 of the frame 1. About the axle 20 and about the part 3 of the frame 1, extend a U-shaped strap 21. The ends of the strap 21 may be connected by securing devices 22 to the part 3 of the frame 1. A securing member 23, which may be a bolt, extends rearwardly through the strap 21, through the axle 20, and through the part 3 of the frame 1, as depicted in Figure 7. The forward ends of rearwardly converging braces 24 are secured at 25 to the front axle 20, the rear ends of the braces being connected at 26 to the side arms 2 of the frame 1. The numeral 27 marks the movable stub axles which are secured to the front axle 20, forward wheels 28 being jour-

naled on the stub axles. The stub axles 27 have projecting arms 29, whereunto the drag link 30 is pivoted at its ends. One of the arms 29 is provided with an inwardly extended bracket 31, and to this bracket a steering rod 32 is pivoted, the steering rod being mounted to slide on roller guides 33 carried by one of the side arms 2 of the frame 1, the numeral 34 designating any suitable steering element on the tractor whereby motion may be imparted to the rod 32, to effect a steering of the vehicle.

The device is so constructed that standard parts of a Fordson tractor may be assembled with an extension frame, thereby enabling a Fordson tractor to be converted into an effective power plant, adapted to operate machinery of any kind which is capable of being driven by the engine of a Fordson tractor.

What is claimed is:—

The combination with a tractor comprising a rear axle casing, rear wheels carried by the casing, a front axle, front wheels movably carried by the front axle for steering, and steering mechanism carried by the front axle and operatively connected with the front wheels—of means for associating and connecting the instrumentalities specified, to form a portable power plant, said means embodying a substantially U-shaped carrying frame, mechanism for connecting the front axle to the forward portion of the carrying frame for swinging movement in a vertical plane and in spaced relation to the forward portion of the frame work of the tractor, means for connecting the axle casing of the tractor to the rear portion of the carrying frame, means for securing the front portion of the frame work of the tractor to the carrying frame at a point intermediate the front and rear ends of the carrying frame and far enough from the forward end of the carrying frame to provide ample space for driven machinery to be located between the frame work of the tractor and the forward end of the carrying frame, means for supporting the machinery to be driven on the carrying frame between the frame work of the tractor and the forward end of the carrying frame, and an operating device for the steering mechanism, said device being extended backwardly to a point to the rear of the means which connects the frame work of the tractor with the carrying frame, thereby to permit said device to be operated by the steering element of the tractor.

In testimony that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of witnesses.

CLARENCE WINSTON COOPER.
WILLIAM JEROME WYLIE.

Witnesses to the signature of Clarence Winston Cooper:
C. H. MAY,
OLA GARDNER.

Witnesses to the signing of William Jerome Wylie:
HENRY MOUNGER, Jr.,
HENRY MOUNGER, Sr.