

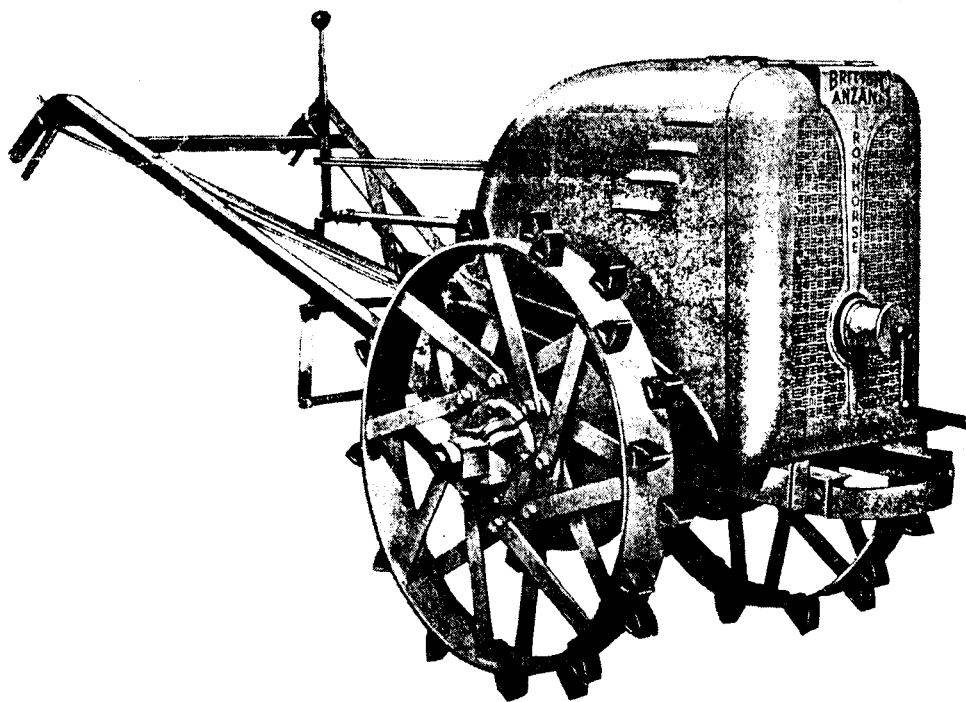
## The British Anzani "Iron Horse" Tractor.

IMPLEMENT dealers in all parts of the country, as well as many abroad, will be interested in the British Anzani "Iron Horse" tractor, which is an entirely new hand-steered small type machine that has just been put into production by the British Anzani Engineering Co., Ltd., Hampton Hill, Middlesex, so as to ensure supplies being available in time for the autumn tillage season.

As our illustrations convincingly convey, the "Iron Horse" is a robust, strongly built and compact design, admirably suited for the heavy duties inseparable from farm work of varying descriptions, but particularly ploughing, cultivating and kindred operations. It has exceedingly strong steel travelling wheels (for which pneumatic-tired ones can be

the fact that a wonderfully clean running prime-mover is the outcome. A "Wico" impulse-starting magneto assists a ready start, which is obtained by hand cranking, the position of the choke being such as to facilitate this, for it is right at the front of the bonnet and easily finger controlled.

The engine runs at 2,000 revs. per min., but at 750 revs. per min. the patent centrifugal type clutch cuts in automatically, so that there is no clutch lever or pedal for the operator to have to engage. All that the operator has to do, once the engine has been started up, is to engage one of the three gears (which latter give travelling speeds of from 1 to 3½ miles per hour) and then open up the throttle by means of the Bowden wire control lever, conveniently placed on the



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substituted, if desired) and the chassis or framework is built up on equally impressive lines. Although ample protection from dust and grit is provided by the streamlined hood or bonnet and by the covers for the roller chains of the final drive, there is nothing to interfere with the readiest accessibility, as will be gathered from our second illustration, which shows the hood raised to reveal the neat arrangement of the engine, air-cleaner, gearbox, etc. Everything is well balanced and of high-grade workmanship.

The engine is a 6 h.p. Anzani-J.A.P. four cycle air-cooled pattern, with a most efficient fan and cowl acting on a deeply finned cylinder head, so that correct operating temperature is never exceeded. Petrol is the fuel, but the consumption is so economical as to be almost negligible when consideration is given to

right steering handle. There is complete governor control at the handles.

Also positioned just as conveniently at the handles is the operation of the power steering, for it is possible to disengage, by pressure on the corresponding lever on the respective handle, either of the two dog clutches transmitting the power to the road wheels, and in this way, full freedom of turning is obtained by a differential action, so that, by throwing one or other of the clutches out of action, the machine is caused to steer round by the remaining one and in such a concise movement that it virtually turns on its own axis. Thus there is no danger of undue over-running at the headlands, even with an attached implement or a trailer, and this despite the fact that the machine is of as substantial dimensions as it

is of substantial build, viz, 8½ ft. overall length, 3 ft. 4 in. overall width and 3 ft. 8 in. high. It weighs 7 cwt.

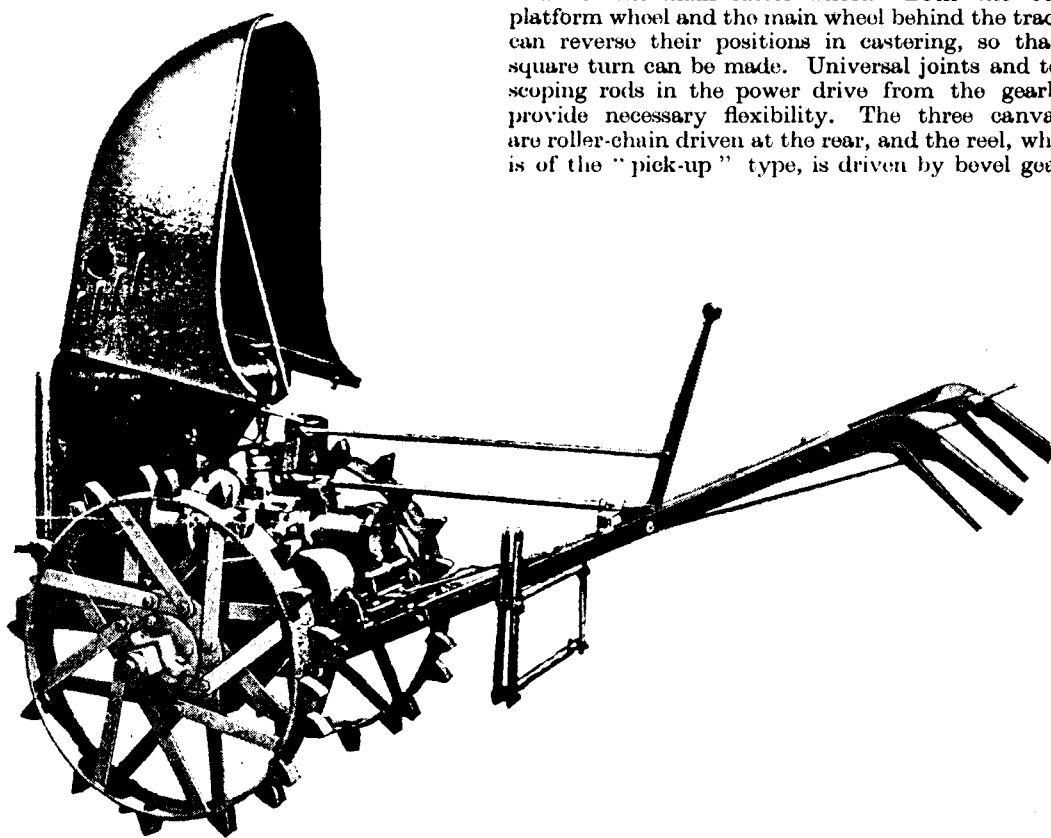
The fully-enclosed transmission, it should be said, gives a most useful low reverse speed in addition to the three forward ones already mentioned, and comprises worm reduction gear and the aforementioned enclosed roller chain final drive, the chains being 1 in. pitch Renold's manufacture. As will be noted, there is handy, remote gear control. A belt pulley is situated in front of the machine, and renders the tractor quite adaptable to all classes of belt work within the power of the engine.

The steel wheels are 30 in. dia. by 4 in. face width and have ample grip through the medium of the 24 spade lugs with which each is fitted. The alternative

## New Forage Harvester.

A HARVESTER designed to work with a mower and load green forage to trucks in a single operation has been developed in America. Its cutter bar is a standard 7-ft. type and it can "float" up and down about 9 in. before affecting the platform, so that the machine can cross irrigated "checks" and cut exceptionally close to the ground, says *Farm Implement News*, Chicago.

The platform on which the forage is delivered is supported at the outer end by a caster wheel; the inner end is flexibly connected with the elevator, which is carried by four large springs supported by the beam of the main caster wheel. Both the outer platform wheel and the main wheel behind the tractor can reverse their positions in casting, so that a square turn can be made. Universal joints and telescoping rods in the power drive from the gearbox provide necessary flexibility. The three canvases are roller-chain driven at the rear, and the reel, which is of the "pick-up" type, is driven by bevel gears.



Hood Raised to Show Compact, Clean and Sturdy Layout.

pneumatic-tyred wheels are of 31 in. dia. by 6 in. section and have an extra heavy self-clearing traction tread. In either instance, there is full clearance given to the machine, sufficient for growing crops to be straddled whenever necessary, while there is the further advantage of adjustable track width of from 24 to 36 in. An adjustable drawbar is part of the standard equipment, but tool attachments are supplied to order.

Altogether, the "Iron Horse" is of convincing design, as is confirmed by the many refinements incorporated in it. For instance, no fewer than 10 ball and roller bearings are used, the gears are of a specially hardened high-duty steel, and a very effective oil-bath air-cleaner is fitted to the carburetter. Weather protection, too, is most thorough.

Since the crop does not touch the ground after it has been cut, there is neither contamination with dust nor picking up of stones.

## Bamfords' Royal Appointment.

MESSRS. BAMFORDS, LTD., Utttoxeter, have been honoured with the Royal Warrant of Appointment to the King.

The Royal Warrant of Appointment to the late King George V, has been held by the firm since 1913.