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DON'T FAIL TO RENEW YOUR SUBSCRIPTION
Before it is too late.

a by-product, selling at a few cents per gallon, leaped into prominence with the introduction of the gasoline engine. To-day it sells at twelve cents in quantity, and fifteen to twenty cents at retail, while the quality is far below that of even ten years ago. Electricity and gas have occupied the illuminating field, and kerosene is the by-product. The production of kerosene has increased not only absolutely but relatively, and it can now be bought at from four to six cents in quantity, or ten cents at the corner grocery. Fuel that was economical in the gasoline engine of ten or fifteen years ago is fast becoming a luxury. But with the present price of kerosene, the builder of the oil engine to-day is only following the greatest law of invention—that of necessity.

One man in the field may handle four to six horses, developing from $2\frac{1}{2}$ to $4\frac{1}{2}$ -horse power. Two men on a gas tractor will handle an outfit doing from ten to twenty times the work. To care for a traction engine doing the work of twenty-five horses requires approximately the same time in the course of a year as to care for one horse. The cost of a building for sheltering a 25-horse power tractor is approximately one-tenth of that required to shelter twenty-five horses and their food supply for a year. The fuel for a gas tractor occupies about two and one-half per cent. of the space required for the feed for twenty-five horses, and will weigh from one-fifth to one-tenth as much.

Objection is heard that it is not fair always to compare the horse and the tractor on their performance in plowing. However, we have plows especially designed for engines, and practically no other implements. A man can not cut much grain with a sickle; he never even attempted to use two or three at once by some makeshift connection, but the tractor has found ways of coupling up horse binders, harrows, and drills and doing a fairly economical job. Given other implements and machines, designed especially for use with engines, and greater economy may be expected. The combined harvester, with all its objectionable features, is a sample of the economy which may be expected of machines designed for use with a large number of horses or a single engine.

Objection is also heard that we are not comparing the gas tractor and the horse, which is true. We are comparing the gas tractor with the number of horses which will equal it in power. These engines are now wanted by big men on big work. Perhaps in the future the one-horse or two-horse tractor may be realized. So far we have not approached the ideal of a small unit that will compete with the horse in price and versatility.

The horse gets less out of its food than any other farm animal. The gas engine gets more out of its fuel than any other heat engine. The gas tractor now gets

WOULD YOU LIKE TO PLOW QUICKER WITH LESS LABOR AND LESS EXPENSE?

When plowing, one man, one plow and 3 horses are equal to about $2\frac{1}{2}$ acres per day.

It's easy to figure out how long it will take you to do your Fall plowing or how many one-man, one-plow and three-horse outfits you will need to prepare your ground for seeding.

Now, horses can be worked only so many hours a day—they must be fed and housed, whether working or not and every 3 horses require one man for a driver.

But, should you own and operate a



you can, with a headlight, plow as many hours a day as you wish. It consumes no fuel when not working, and, when working, it burns kerosene—the cheapest, most concentrated and most easily obtained fuel known—it's much cheaper than oats.

With the power of 8, yes, even more, one-man, one-plow and three-horse outfits are centered in the hands of one operator.

So you see with the oil pull you save time, the labor of 6 or 7 men, expense of feeding during winter months and the surplus in cost of oats over kerosene per unit of power delivered.

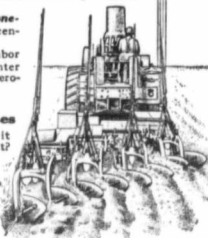
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We will gladly show you where you can do it and make money. Will you write us about it?

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IMPROVED STRAW FUEL MACHINE

This machine takes the straw in at one end and is conveyed to rollers and is rolled into bundles 4 ft. long and anywhere from 2 to 6 ins. in diam. Instead of the farmers burning their straw in stacks they can have it all rolled and have all the fuel they want. No need of hauling fuel miles when they have it on their own farms.

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THE FAVORITES WITH THRESHERMEN AND PLOWMEN

These pumps have won an enviable reputation among all heavy power machine users owing to their simplicity, long life and durability. The present Madison-Kipp construction is the result of years of actual experience in oil pump manufacture. The pawls are all drop forgings, forged from open hearth steel and hardened in the most modern hardening ovens. The plungers are a special grade of steel, case hardened as hard as the hardest glass and after hardening are ground as smooth as a mirror.

All castings, both gray and malleable, are made from the best known formulas. No acid, sand, dirt or grit will affect our pumps. Our style B force feed lubricator is especially recommended for use in temperatures where the oil will not remain in a liquid state.

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Our shop is devoted exclusively to the manufacture of oil pumps and force feed lubricators. All our energies are expended in this line. The highest grade of mechanics and skilled workmen are employed by us, and our shop equipment consists of the most modern machine tools, jigs, fixtures and limit gauges. This combination, together with our knowledge of knowing how to combine and use the best known materials, enables us to furnish a pump that will meet every requirement, and will work for years without any expense.

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