### Farm Motor Fuel Problems Are Now Easily Solved

After a man buys a tractor or an engine of any kind he must answer for himself the question, "What shall I burn?" must be decided to a large extent before the engine is purchased.

Last summer the diacussion as to what fuel the tractor and farm engine should use and what was to be the future tractor engine luel was almost dormant. With gasoline selling for as low as 10 cents a gallon and many parts of the middle west and with the price of kerosene at 7 or 8 cents, the difference in the cost of the two fuels was so slight that only, a few companies who already had kerosene tractors on the market were using kerosene for fuel.

Gasoline vaporized and mixed with air it formed a very explosive mixture. The success which was a twist and when vaporized and mixed what the price of kerosene at 7 or 8 cents, the difference in the cost of the two fuels was so slight that only, a few companies who already had kerosene tractors on the market were using kerosene for fuel.

Gasoline has doubled in price in six months, so conditions have changed and the old question has again assumed considerable importance. During one week in April the writer read newspaper stories of two men who had invented new fuels. One is a petroleum product, which would cost 6 cents per gallon. These fuels have a satisfactory fuel at a cost of 15 cents per gallon or less, and the other is a chemical of which four ounces added to five gallons of water will, according to the inventor, make a satisfactory fuel at a cost of 15 cents per gallon. These fuels have a statisfactory fuel at a cost of 15 cents per gallon. These fuels have a statisfactory fuel at a cost of 15 cents per gallon. These fuels have a statisfactory fuel at a cost of 15 cents per gallon or less, and the other is a chemical of which four ounces added to five gallons of water will, according to the inventor, make a statisfactory fuel at a cost of 15 cents per gallon. These fuels have a fuel than gasoline because in the capacity of the control of the present fue more than the gasoline contro

volatile liquid is now called gasoline than when the gas engine was unheard of and gasoline was a drug on the market.

No two supplies of gasoline will be of exactly the same composition, because there is a great variety in the quality of the crude oils from which they are made and the quantity of gasoline that can be obtained from them. No two crude oils will be the same. Oftentimes the oil from two wells in the same oil field will be very different in their gasoline content. The average yield of gasoline from American petroleum, however, is now a little below 12 per cent. Scientists and oil manufacturers are working on schemes to increase this yield. By the Rittman process it is hoped to increase this yield of gasoline in some cases as much as four or five times.

When the internal combustion en-



Of Course **TURNER** 

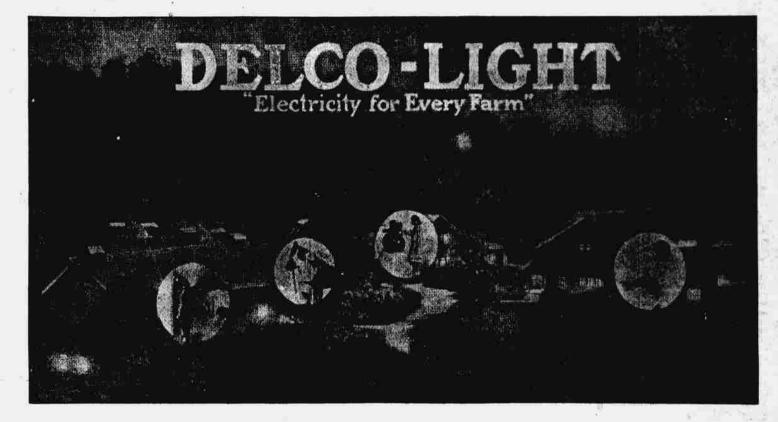
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SIGNS

For the Tractor Show Have Him Paint Your Next Sign

TURNER The Sign Man

Fremont, Nebraska



# Electricity-The Universal Light

Delco-Light is a complete power plant-compact--safe--economical

**Starts** by merely pressing a button. Nothing to get out of order or require expert attention.

Stops automatically when batteries are full.

Runs five hours on one gallon of gasoline.

forty to fifty lights for house and barn and provides power for churn, cream separator, pump, washing machine, vacuum sweeper, electric fan and other small machinery.

Costs from 5 to 7 cents per day in the average farm home.

Developed, Sold the same engineering and manufacturing abil-& Guaranteed by ity that made Delco Cranking, Lighting and Ignition for automobiles the standard of the world.



\$250.00

Write for illustrated folger

See Delco-Light in Actual Operation at Fremont Tractor Show

CHAS. E. WAGNER, Gen. Agt. 1903 Farnam St., Omaha, Neb.

#### Delco Light for Farm Homes

"Step by step during the past thirty years electricity has come to be the standard in illumination," says C. E. Wagner, state agent for Delco farm lighting equipment. "A little over thirty years ago electricity was adopted as a means of lighting streets and stores. Later it was applied to the home, the theater, the church and finally to railway coaches and steamships, and now comes its use in suburban and rural districts to supersede the kerosene lamp and other means of lighting.

"Much experimental work has been done during the last ten years with a view to the perfection of a small power plant that would provide the numerous electrical conveniences to farm and suburban homes which are removed from power or fixed to the standard in illumination," says contains the burning of a motor from the bactery, which is later recharged by the generating plant.

"To start the generating plant it is only necessary to press a button and as the engine picks up a charge of gasoline and is running on its own power the motor reverts to a generating plant in the puring of a motor from the bactery, which is later recharged by the generating plant it.

"To start the generating plant it is only necessary to press a button as the engine picks up a charge of gasoline and is running on its own power the motor reverts to a generating plant in the principle of the running of a motor from the bactery, which is later recharged by the generating plant is a specially designed storage battery which is plater recharged by the generating plant.

To start the generating plant it is only necessary to press a button at the running of a motor from the bactery, which is later recharged by the generating plant is a specially designed storage battery which is later recharged by the running of a motor from the bactery, which is later recharged by the running of a motor from the bactery, which is later recharged by the running of a motor from the bactery, which is later recharged by the running of a motor from the bactery, which is later recharged by t

which are removed from power or transmission lines. After five years the Domestic Engineering company of Dayton, O., has perfected the Deleo light, a power plant which is demonstrating itself to be very satisfactory.

"The Delco light consists of a single cylinder air-cooled gasoline engine for power. The electric genera-

## The BIG BULL Tractor Does Subsoil

The Scientific American says

in their issue of May 13th, 1916:

"In our issue of April 3rd, 1915, we published an article on amail tractor, in which the following statement appears: 'In the sign of one tractor the drive wheel runs in the furrow and undou edly creates a hard pan similar to the share hard pan formed by horses's feet and the plow share. It now appears that the I Tractor Company of Minneapolis, Minn, was at that time the company of Minneapolis, Minn, was at that time the company of Minneapolis, Minn, was at that time the company of Minneapolis, Minn, was at that time the company of Minneapolis, Minn, was at that time the company of Minneapolis, M

#### See "The Bull With a Pull"

work at the Official Tractor Demonstration at Fremont, Neb., Aug. 7-11

Nothing could be of more importance to the farmer than a method where-by he can increase his crop without cost to him. Bull Tractor owners tall us the Big Bull Tractor increases their crop yield from 10% to 32 1-3%.

Better Do Your Fall Plowing With a "Big Bull"

ork-run anything from a feed grinder to a 24 or 26-inch for three months' free subscription to Monthly Tractor Bulletin-reating tractor news and valuable information.

**BULL TRACTOR COMPANY** 

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