

TRACTOR FEATURES GIVEN DESCRIPTION

Pinions, Wheel and Control of Model S-25, Sieve-Grip, Are Explained.

For the benefit of those expecting to attend the forthcoming tractor demonstration on the Cotton, Ruegg and Phenix ranches this week or those unacquainted with the construction of the Samson sieve-grip tractor, the following information relative to some of the leading features of the model S-25 is given below:

Sieve-Grip Wheel—The sieve-grip wheel is one solid piece of steel with no parts riveted or bolted on the work loose and is lost. Its skeleton tread permits no possibility of soil packing. The angular grips afford ample traction over the rank vegetation of cover crops and over loose plowed ground. It is more important that a light tractor be able to work efficiently over plowed ground than be useful only in plowing.

Lubricated Roller Pinions—Both the sieve-grip wheels on the Samson tractors are driven by lubricated roller pinions. These replace the common spur gears which are ordinarily used in the final drive. As the teeth of the bull gear merely press against the rollers of the roller pinion as they roll on and off, a minimum of friction occurs. The roller pinion is composed of hardened and ground steel rollers. Lubricant is forced through grease channels from the compression grease cup to the center of each roller. As the lubricant is in this way forced to the center of the bearing and allowed to work out at each end, no dust or grit can work in to cause excessive wear. The axles of the drive wheels and front wheel are also equipped with roller bearings, and the same method of lubrication is employed.

Widest-Moist-Riser—For many years the motor of Samson sieve-grip tractors has been regarded as dustproof. This is an achievement in tractor building which adds many years to the life of the tractor. Protection is given to the cylinders and crank-case "vent" by a patented Nodur-Moist-Riser. All air that enters the motor is "washed" free from all particles of dust and grit. Not only does this protect the engine from wear owing to the elimination of dust, but the air, passing through water, absorbs moisture which reduces the accumulation of carbon. This moist air is fed through the air intake of the carburetor.

Automatic Motor Speed Control—A ball-and-disk type governor on the Samson tractors affords an automatic control of the motor's speed. This is adjustable from the seat of the tractor, and any speed from 1 1/2 to 3 1/2 miles per hour can be obtained. The principle of this governor is the action of the centrifugal force of six balls between the beveled surfaces of two steel disks. A governor arm is fastened by a non-compressible spring, making a very sensitive and positive control. When this governor is set to run the motor at any desired speed from 450 to 900 revolutions per minute, it will raise the throttle regardless of load up to the capacity of the motor. Such an arrangement is especially useful in threshing and other stationary work in which variable load demands uniform power for efficient operation. Bean threshing requires accurate governor control because heavy and wet bundles cause constant fluctuations in power demand. Such a constant checking of speed cannot be tolerated, as it means a loss of beans. No variation of engine speed is permitted with this quick acting ball and disk type governor. It will not permit racing of the engine nor allow a perceptible slacking in speed under heavy pull.

TWO WOMEN WATCH FORESTS IN LONELY CABIN HIGH IN AIR

Communication Maintained With Civilization by Telephone; Bears Frequently Seen.

On the rugged summit of Indian Mountain Miss Nita Vogel, the first forest service lookout woman in the Oregon National forest, has made her home until the fire season is over and the autumn rains set in.

With a friend, Miss Ivy Gray, as a companion, Miss Vogel spends her days watching the landscape for signs of smoke, cooking house, carrying water from a spring a mile away, and all the other odds and ends of camp life. The two women live in one of the glass enclosed lookout houses of the forest service, which commands a view of five big snow-covered mountain peaks.

Neighbors Reached by Telephone—But they are not entirely isolated. They often have visitors from the Boy Scout camp at Wahtum lake, from some campers at Indian Spring cabin who are picking huckleberries, from hikers and mountain climbers. Then there is the telephone over which Miss Vogel may gossip with her neighbors over on adjoining mountain peaks in similar lookout houses. Miss Vogel, by the way, orders her groceries over the telephone just as Portland housewives, except that she orders in larger quantities, and a packer brings them up to her.

As a good housewife besides being a good lookout woman, Miss Vogel is pestered nearly to death with ant-flying ants which breed in millions in the rocks. No remedy has yet been found sufficient to extinguish them, and when the food administration's allowance of sugar reaches the summit of Indian mountain, it is a race with Miss Vogel and the ants to see which will get it first.

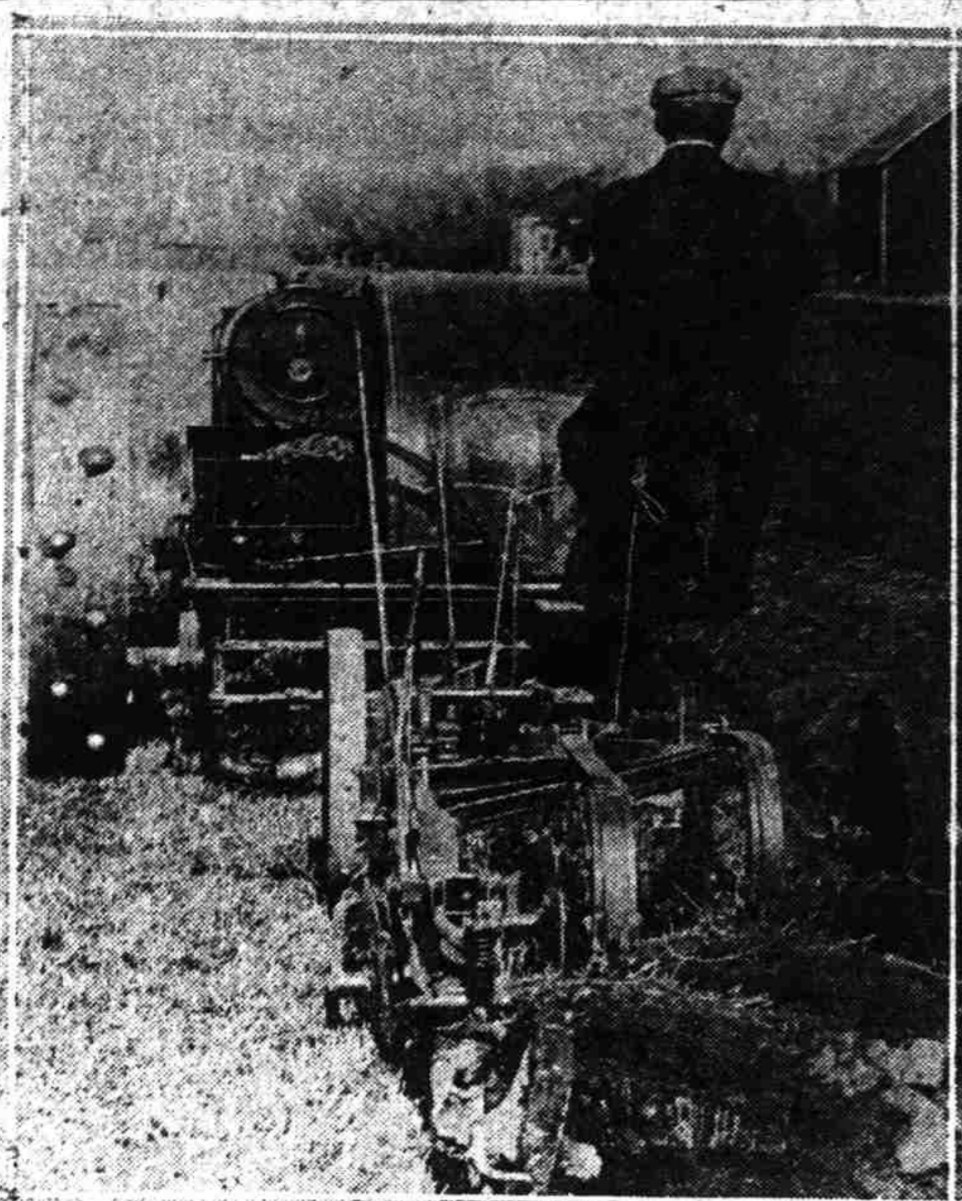
Bears Come for Water—At the foot of a precipice a thousand or more feet below the lookout house, looking toward Mount Hood, is a little lake, which bears often visit for water, and other species of wild animals may be spied from the little house on the mountain top.

Miss Vogel takes the place of Luther Huff, lookout man on Indian mountain for a number of years, who was called in the draft recently.

Bishop of Oxford Coming—London, Aug. 31.—(I. N. S.)—The Bishop of Oxford will go to America in September to participate in a crusade with regard to the allies' war aims. He is going under the auspices of the ministry of information and in response to an invitation by an American committee.

A small hand operated machine has been invented to enable cabinet and pattern makers to make their own dowels or rods of any size from the wood with which they are working.

TRACTOR IS SOD PLOWING



P. O. Little Genius tractor plow fitted for general purpose bottoms, with mold extensions for sod plowing.

NEW AGRICULTURAL IMPLEMENT MAKES SOIL EASY TO TILL

Eliminates Harrowing, Discing and Rolling While Plowing; Impresses All Experts.

A new agricultural implement that absolutely eliminates the necessity of harrowing, discing and rolling, and that performs these operations while plowing, has been demonstrated to several agricultural colleges and their professors. Not only does it perform these operations at the time it takes to do the plowing but it prepares a perfect seed bed at the same time. Thoughtful farmers everywhere have given more and more attention in the recent years to the proper preparation of the seed bed, but up to the advent of this machine there has been nothing on the market that would accomplish this desired result without more work than the average farmer was willing to do. In this day and age, every farmer realizes that it is necessary to produce the maximum of crops with the minimum of labor. This is very necessary because of the high cost of labor as well as the high cost of farm land.

Deep Tilling Is Important—Up to the present time it has been out of the question for the American farmer to accomplish the profitable deep tilling that results from the laborious methods of the European farmer. Yet, we have known for a long time that deep plowing pays and pays big, and we all recognize the advantages under all conditions and circumstances of what is known as dry farming, which is nothing more or less than deep cultivation. But in order to get this result it has required more labor and more time than many farmers have been willing to put in.

To a young man, graduate of the University of Minnesota Agricultural college, belongs the fame for having assisted in developing a new agricultural implement, known as the "Once-Over" tiller, which revolutionizes farming. Guy E. Lincoln has brought out the most practical and valuable improvement made on plows.

Attachment Is Easily Applied—The "Once-Over" tiller attachment is easily and quickly attached to the ordinary sulky plow, and consists of a steel tooth rotor, set to the right of the share and mold board. This rotor is geared at the top to the shaft of an anti-light weight and compact gasoline motor, which whirls the rotor at about 500 revolutions per minute. This rapidly revolving motor catches the liftings from the plow just as the soil turns over off the moldboard and the teeth of the rotor shred and tear the weeds, grass, roots, fertilizer and soil into a finely pulverized mass. It is not necessary to make a perfect and mellow seed bed for the sowing of any crop.

The "Once-Over" tiller is manufactured by the Scientific Farming Machinery Works of Minneapolis, Minn., in two different sizes, one for the sulky plow and one for use with the tractor. The one for the sulky plow does not require additional horses and is run by the light weight gasoline engine. The one for use with the tractor can be operated by the tractor power.

Speech Returns as She Bids Farewell

Northampton, Mass., Aug. 31.—(I. N. S.)—"Oh, James," exclaimed Mrs. Martin S. Hardiman as she bade her son goodbye at the station when he went to join the draft army at Camp Devens. It was the first time she had spoken in a year and a half, the excitement of seeing her son leave resulting in the recovery of her voice. Physicians who had been unable to explain her loss of voice had predicted that she might be able to regain it in some emotional crisis.

Peacemaker Slugged With a Glass Bottle—Springfield, Ill., Aug. 31.—(I. N. S.)—J. D. Mardel says it doesn't pay to interfere as peacemaker in a family quarrel, even if you are a friend of the family and a boarder. And Malved knows. He tried it when Peter Andrew and his wife, with whom Malved had long been boarding, got into a flistic argument. In the melee Malved was struck with a bottle that caused a gash in his head requiring four stitches.

1918 PROVES FATAL YEAR TO THE LEADING FLIERS OF GERMANY

At Least 14 Hun Aviators, Each With Record of Many Victories, Are Downed.

Paris, (by mail)—Aug. 31.—(I. N. S.)—Up to the present the year 1918 has been disastrous for the German aviation. During the past six months 14 German aviators, each one credited with more than 20 victories, have been killed or captured by the allies. Among those who have fallen are Captain von Richthofen (eighty victories); Lieutenant von Bulow (28 victories); Captain Max Muller (38 victories); Captain von Tutschek (27 victories); Lieutenant Fuschthue (21 victories); Lieutenant Loetzer (24 victories).

Bombing squadrons have also been hard hit by the allied airman. Captain Klein, chief of squadrons assigned to bombard London; Captain Weese, Captain Koehl and many others have been killed or captured.

The year 1917 was likewise unfavorable for the German pilots. Thirty-two German aviators, whose victories alone amounted to 551, were given in the German casualty list as missing, killed or in the hands of the enemy.

Wife Says Other Man Better One

St. Louis, Mo., Aug. 31.—(I. N. S.)—"He is a better man than you, and as soon as you get a divorce from me, I will marry him," are the words alleged to have been spoken by his wife, Bessie, according to a divorce petition filed here by Hugo S. Schette.

The matrimonial career of this couple covers the brief period from April, 1917, to July, 1918, and Schette declares he had to travel paths replete with thorns and thistles in that time.

The thorns and thistles, he alleges, consisted of the display of a garrulous temper on the part of his wife, of endless quarrels and upbraidings, winding up, he says, in her sudden departure.

Employes Watch Comrade Kiss Flag

Evansville, Ind., Aug. 31.—(I. N. S.)—Norma Matz, employed at a factory here, was compelled to kiss the American flag because it was alleged that she said "Germany did not want to fight, but that President Wilson did." She was dragged before C. A. Heldt, superintendent of the plant, who says she confessed to making the alleged remarks. Work was suspended in the plant for several minutes while Miss Matz marched out before the other employes and kissed the flag.

Cop After Slackers Didn't Have Card

Knoxville, Tenn., Aug. 31.—(I. N. S.)—Amusing incidents occurred here during the "round-up" of more than 300 youths in 12 pool rooms. A deputy sheriff asked one of the patrolmen, who is in the draft age and who was assisting in the "round up," to produce his final card. After making a few feeble excuses the patrolman had to admit that he did not have his final card with him. The situation was relieved, however, when the patrolman applied at his local board and secured a card.

Brown Sugar Found Simply Fertilizer

Fort Wayne, Ind., Aug. 31.—(I. N. S.)—George P. Crouse, deputy food administrator of Allen county, made a first magnitude sugar raid at the home of William Zeddis, where he seized two 100-pound sacks labeled "brown sugar." Zeddis assumed a bawdy attitude and whistled the soothing refrain of Eva Tangany's "I Don't Care." Upon opening one of the sacks Deputy Crouse gasped for fresh air. The brown sugar proved to be fertilizer.

NINETY MOTOR TRUCKS MAKE 981-MILE TRIP TO ARMY DESTINATION

Immense Train of Big Vehicles Starts in Detroit and Ends Journey in Georgia.

When 90 big Packard trucks for Pershing were driven overland from Detroit to Baltimore the press all over the country gave much space to the account of the journey, as a precedent was established contrary to the general opinion of the ability of motor trucks to negotiate such long distances.

Since that time thousands of trucks and motor cars have been driven overland from factories to distant points until it is a matter of everyday occurrence to see trains of trucks and cars wending their way over the good roads of the East.

Profiting by the experience gained on these trips the army has just completed a trip with a train of 90 Packard trucks over roads that would have been considered impractical for the feat a year ago.

Between Detroit and Camp Jassup in Georgia is a distance of 981 miles, which so far as distance is concerned is not remarkable for a truck journey, but much of the road was unsuitable to heavy traffic and in many places the soldier drivers had to reconstruct bridges before the heavy transports could be gotten safely over.

All of the trucks were of the three-ton army type and the train was handled by 200 soldier mechanics, all picked men, as it has been found that men trained in the handling of motor equipment achieve greater success than those who lack experience. All of the trucks were brought through the strenuous run in fighting trim in a period of 17 days, averaging nearly 60 miles per day over all kinds of roads.

Captain G. P. Hippe, First Lieutenant L. A. Couch and First Lieutenant C. O. Middlebrook were in charge of the train. Captain R. F. Andrews also accompanied the train as special convoy officer. These men have set a new record in the operation of truck trains over road conditions that were most difficult and have shown to the commercial world the immense possibilities of truck transportation over long distances under conditions that would have been deemed impossible a short time ago by even the most optimistic advocates of motor trucks.

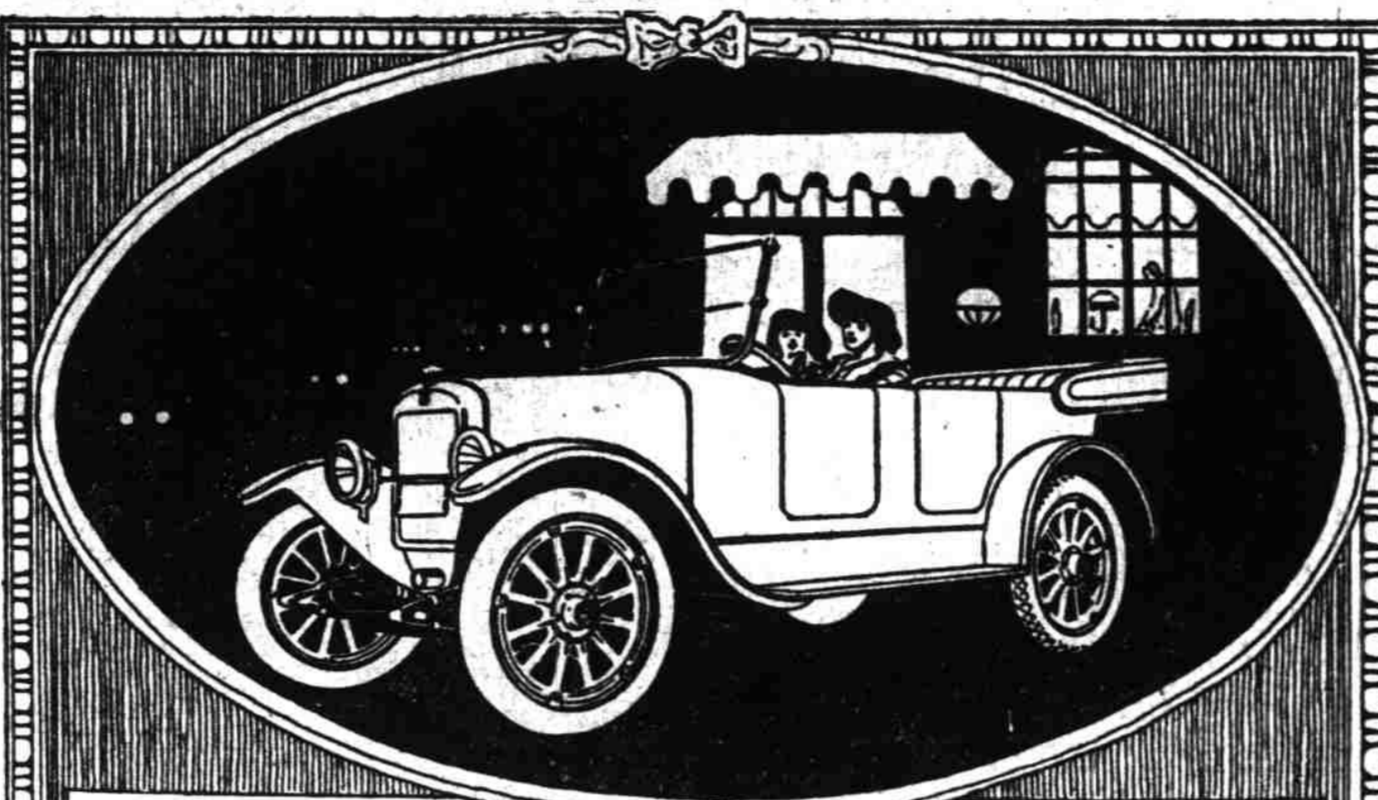
The manufacture of street paving bricks from blast furnace slag is being developed in England.

Indiana Hens Are Working Overtime

Muncie, Ind., Aug. 31.—(I. N. S.)—Three hens owned by David Mooreland of Muncie, are complying with the "speed up" war slogan, their owner reports. According to Mooreland's story he has been getting 18 eggs a week from the three hens ever since Christmas. One of these hens has been laying elongated cartridge shaped eggs which contain two whites and two yolks in each.

Plan Memorial Home—Atlanta, Ga., Aug. 31.—(U. P.)—A movement for building a memorial home in memory of the late Judge Robert T. Daniel of Griffin, Ga., who was grand sire of the Odd Fellows of the world at the time of his death, has been started by the Grand Lodge of Georgia. The home will be for indigent Odd Fellows and Rebekahs and their children.

Zones Kentucky Coal—Indianapolis, Ind., Aug. 31.—(I. N. S.)—Because of the excess production of coal in Illinois and Indiana the federal fuel administration has "zoned" Kentucky coal out to these two states. A. W. Calloway, distributing agent of the fuel administration, announced. Indiana was formerly a heavy consumer of Kentucky coal.

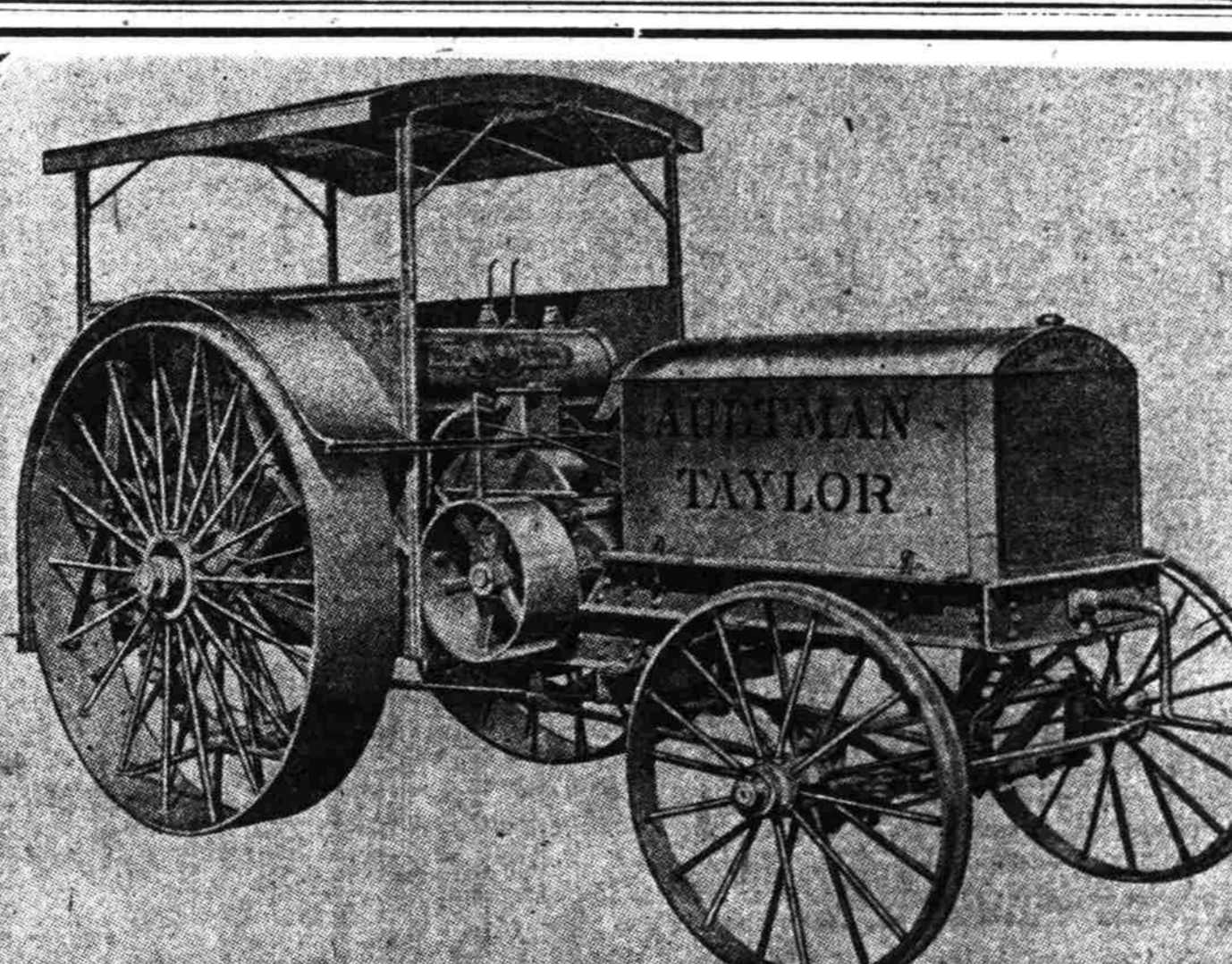


GOOD LOOKS COST NO MORE WHY NOT HAVE THEM?

There is no light car today in the class with the BRISCOE that has the up-to-date lines and beauty of this light car. For the BRISCOE is the only light car that has what higher priced makers term the correct 1918 straight lines. When you own a BRISCOE you have the only low-priced car finished in more than one color; green body, black fenders and cream wheels. And all this costs no more than ugliness, so why not have the BRISCOE? Don't buy any car until you have seen the BRISCOE at our showroom.

W. H. WALLINGFORD
FIFTEENTH AND ALDER
Distributors

BRISCOE \$1035 THE CAR WITH THE HALF-MILLION DOLLAR MOTOR



A NEW AND SMALLER SIZE Aultman-Taylor Gasoline-Kerosene Tractor

15 H. P. Drawbar Rating—of—30 H. P. Brake Rating
Will plow with 4 Bottoms at the Portland Tractor Demonstration, September 5, 6 and 7. See this Light, High Power and Economical Tractor.

Aultman-Taylor Machinery Co.
Dobson & Gezel, Distributors, 150-156 Union Ave., Portland, Or.



You Can Make More Profit From That Farm with a Tractor and an Oliver Tractor Plow

The reason we say an "Oliver" Plow behind your tractor is, as you know, you cannot do a good job of plowing with a tractor unless you have the proper plow. Over sixty years of plow building has made the OLIVER the ideal Tractor Plow. Our plows are made in three sizes—two, three and four bottom—in both chilled and steel bases. They will work perfectly behind any tractor, and when fitted and used with the OLIVER Combination Rolling Coupler and Jointers, you can bury all trash and weed seed at the bottom of the furrow.



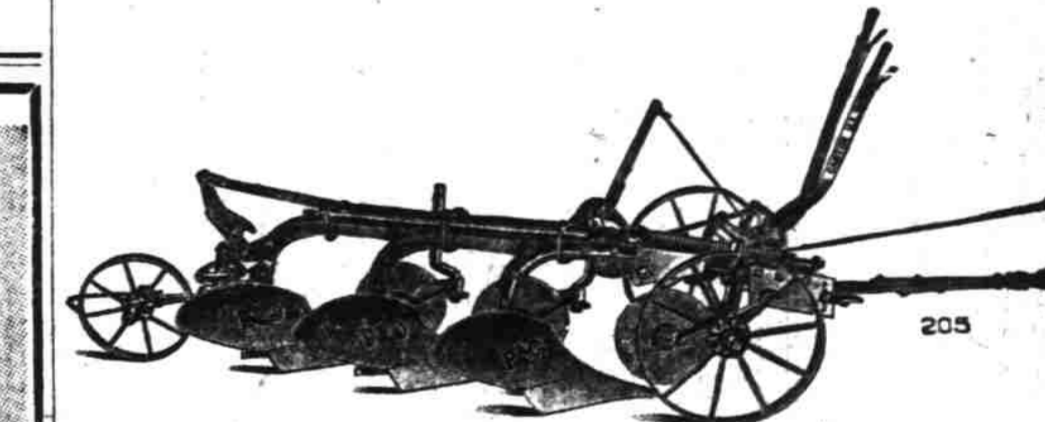
There will be a Big Tractor and Tractor Implement Demonstration given on the Cotton and Ruegg farms, near Linne-man Station, on

September 5th, 6th and 7th where Oliver Plows will be demonstrated. Don't forget the dates or the place. Be sure and be there, as it will be the BIGGEST AND BEST Tractor Farming Demonstration ever given in the Northwest. Write for circulars fully describing Oliver Plows, mentioning this paper.

Oliver Chilled Plow Works

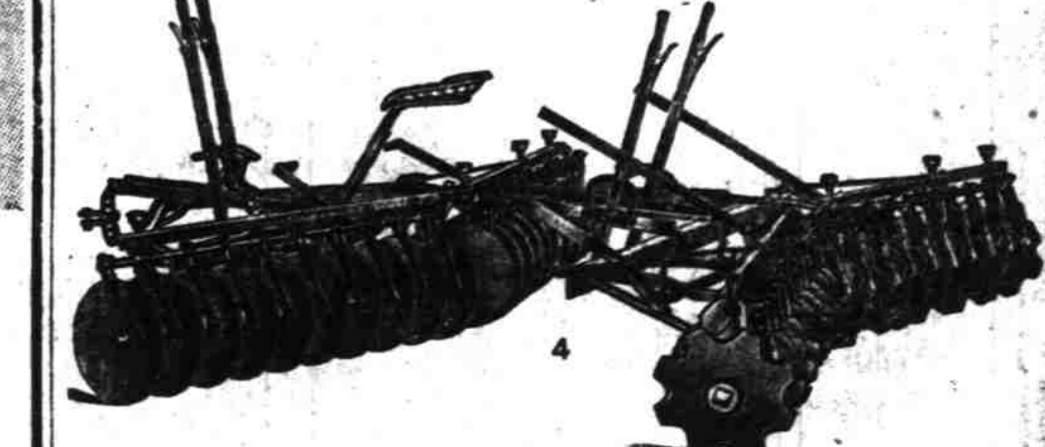
Corner East First and Taylor Streets

P&O LIGHT DRAFT PLOWS



The Little Genius Tractor Plow for Field and Orchard Work
P&O Little Genius Tractor Plow furnished in two, three and four furrow. All the operator has to do is "Pull the String." The raising and lowering device always works. Has high level lift with great clearance. Quick, detachable share and strongest frame and bottom construction. No matter how difficult the work, the Little Genius will do it better than you would believe possible. No soil condition that cannot be handled. We have a suitable shape bottom for every requirement.

Insure Your Tractor Success by Using a P&O



The P&O Heavy Tractor Disc Harrow
Disc Harrow, from 5 to 10 foot, with 16, 18 or 20-inch discs, made especially for tractor work. The work they do is unexcelled and the construction is the strongest.

See Them at the Portland Implement and Tractor Demonstration
Parlin & Orendorff Plow Co.
PORTLAND—SPOKANE—PASC