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Champion A-43, 3/8-in., 18 Price \$1.00 For use in heavy service motors, trucks, tractors and farm engines

**The safe way to select efficient Spark Plugs**

Over three hundred manufacturers of motor cars, trucks, tractors, farm and stationary engines, motor boats, motor cycles and aeroplanes, in Canada and the United States, have selected Champions as regular factory equipment.

They selected Champions to insure efficient operation of their motors—if you want that same dependable, efficient operation in your motor demand



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Our famous "3450" insulators and compression-proof gaskets give to Champions a dependability that is greatly in excess of ignition service requirements.

"Champion" on the insulator is your safest guide to efficient spark plugs.

Sold where motor supplies are sold

**Champion Spark Plug Co. of Canada, Limited**  
Windsor, Ontario

Largest Factory in Canada making Spark Plugs exclusively

**In the Automobile World**

**Newest Notes Of Science**

Australian flux growing experiments have succeeded and the government will encourage the new industry.

A novel incubator hatches eggs that are placed within a glass bell with an electric lamp to supply heat. Of German invention is a tea pot with a projection under the spout to prevent it dripping on a tablecloth.

A Massachusetts inventor has patented a simple device for truing up automobile wheels quickly and accurately.

Crutches that are attached to a belt instead of extending to their users' arm pits have been invented in England.

A patent has been granted for a pistol that lights gas burners by shooting a stream of sparks from friction metal.

Italian agriculturists and business men have formed an organization to produce cotton in Southern Italy and Sicily.

A new automobile accessory automatically compensates for worn brake linings by shortening the throw of the brake rods.

Motion pictures have been made up to a speed of 15,000 a second with a camera and lens invented by a French scientist.

A sleeping car has been patented with sufficient room at the end of each berth for an occupant to stand erect to dress.

Concrete sea going vessels built in Norway and Sweden have been so successful that Denmark is beginning to build them.

The metal cap of a new fruit jar is slightly convex and by depressing the center the edges are sprung away from the jar.

Of European invention is an artificial wood made from autumn leaves ground, dried and compressed with a binding material.

Steel hampers for soiled clothing have been patented, occupying less space and being more easily cleaned than wicker ones.

Tubes made of glue have been invented in Europe for handling petroleum, gasoline and some gases in place of rubber tubing.

A Seattle woman is the inventor of a telegraph code that is said to be the greatest saver of cable oils of any yet devised.

The chamber of deputies has appropriated almost 300,000,000 francs for French military and commercial airplane development.

To save closet space a new hat box hangs close to the ceiling by an elastic cord and can be pulled down when it is to be used.

There are about 40,000 square miles of virgin forest and about 20,000 square miles of second growth timber in the Philippines.

The tails of a duster coat designed for automobilists can be wrapped around a wearer's legs and buttoned to form loose trousers.

The city of Lyon has opened a professional training school for the higher technical and scientific development of French women.

An Ohio inventor's attachment for potato diggers that loads the tubers into sacks is claimed to do the work of six or eight men.

An automobile radiator has been placed within a fly wheel by a Roumanian inventor, the water being cooled as it is whirled around.

After a new monkey wrench is tightened in the usual way it can be opened quickly by pulling out a lever on one side of its handle.

Locomotive cylinders fed by automatic stokers and burned in a jet of fuel oil are successfully used as fuel in car shops in Budapest.

A Wisconsin man is the designer of building blocks with herring-bone grooves on their upper and lower surfaces to make them interlock.

Screening the plants from certain effects of sunlight, an English botanist has produced purple nasturtiums, a color heretofore unknown.

A compound lever, quick acting

tire pump has been invented with a folding handle that permits it to be carried in an automobile tool box.

The possibility of furnishing Rome with an effective waterway to the sea through the Tiber river again is attracting attention in Italy.

A worm gear has been designed for use with small electric motors to reduce the speed of machinery operated by them in a ratio of 25 to 1.

Nearly every Chinese silk producing center maintains a school of sericulture or an agricultural school with that science as a department.

For the use of bow legged men a light, flexible frame, has been invented, to be strapped to a leg by a garter to make trousers hang straight.

Through rail service between Bangkok and Singapore has been made possible by linking the railways of Siam and the Federated Malay States.

A ball that rolls around inside a new spark plug for automobiles is intended by the inventor of the device to prevent accumulation of carbon.

Weather conditions are reported and forecasts issued by radio telegraphy from a number of places in France as frequently as seven times a day.

The stand supplied with a new electric flatiron contains an opening into which a curling iron can be placed to be heated by the larger implement.

The government of the Dominican republic will establish an agricultural experiment station and try to improve the quality of the native live stock.

According to an Illinois man who has patented a violin almost cylindrical in shape it has all the tone qualities of the regular formed instrument.

A Frenchman has invented a bicycle with additional propelling mechanism for the front wheel that it operates a pumping motion of the handle bars.

Both sides of a new handbag designed for women fold down from a bar to which the handle is attached, giving access to everything it contains at once.

German engineers are figuring on obtaining enormous power by diverting water from the high level rivers of Southern Germany to the low level system of the Main.

A container for soap suitable for removing grease spots has been patented that can be attached to the handle of a whisk broom, where it is within reach when wanted.

A motion picture projector built by a French scientist can be run in either direction so that any portion of the film can be used to emphasize a point in a lecture.

To enable erasures to be made in type written manuscript without smearing carbon copies is the purpose of a bar to be placed on top of a typewriter to separate the sheets.

A company has been formed in Australia to manufacture the motor fuel known as natalite in Papua, where plants and trees have been found to yield 73 gallons of alcohol per ton.

**Finding the Canary Is Frequently Difficult**

If the grease cups of the car have not been neglected, one of the main sources of noise trouble has been avoided. However, many an elusive rattle or squeak may come from some other cause.

For instance, there are loose bolts. The fender may rattle, or the lamps, or the radiator, and often even the engine may work loose and give out a roaring, out-of-balance sound. The cure of these is to keep all bolts and nuts tight.

Also, watch the brake link rods. Squeaks here are hard to find, but can be detected by coasting down hill with some one on the running board.

The hood clip may squeak or the windshield rattle, but most elusive is the top. A squeak from there is like the croak of a frog in a swamp.

If there, and then it isn't. Oil the places, and metals touch.

The best preventative is oiling wherever metal parts touch.

**DIGEST OF MOTOR NEWS.**

Motor fire engines were used in Boston 20 years ago.

New York State uses 119,918 commercial motor vehicles.

There are 231,501 motorcycles registered in the United States.

Asphalt was first used in Paris as a road making fifty years ago.

France expended 15,000,000 francs abroad last year for motor spirits.

In Panama there are 1,001 motor vehicles registered in the Canal Zone.

Pennsylvania has thus far issued license tag numbers for 41,575 motor trucks for 1920.

Eighty-five different trade names are shown on American-made passenger automobiles.

In England a school of motoring has been established for the education of automotive engineers.

Japanese chauffeurs must go to school and learn all about motor mechanics before a license can be obtained.

A baby motor taxi is operated in Yokohama, Japan, carrying but two passengers, at a charge of 25 yen per mile.

Because the rule of the road is to keep to the left, England is about to restrict motor cars with left hand drives.

Nineteen-twenty will go down in history as the greatest producing year of the automotive industry in the United States.

The United States Government pays for all automobiles used by the resident. Gasoline, oils and repairs are included.

With a membership close to 10,000, the Detroit Automobile Club is recognized as the largest city club in the United States.

Owing to the heavy motor trucks which are coming into use in Tokyo, Japan, it has become necessary to rebuild 200 bridges.

There are 12 different kinds of miles in the world used for measuring distances, and each one varies in length in different countries.

The general staff of the armies of France owns and operates no less than 200 high-powered American-

made passenger automobiles.

Scheduled production of one automobile factory in Detroit for the coming year provides for 250,000 tractors and 1,250,000 passenger cars.

A total of 8,692 motor vehicles was in service with the American Expeditionary Force. Of this number there were 8,000 passenger cars and 26,000 trucks.

Tractor plows operating near Medan, Sumatra, are turning up 20 acres of ground in five hours, which it is claimed, would have taken 100 coolies one working day to perform.

Queen Marie of Rumania is a popular motorist among the royal families of Europe, and she is seen taking many long trips throughout her country in a high-powered motor car.

It has been estimated that the saturation point of automobiles will not be reached until the world has 30,000,000 cars. Today it has approximately 10,000,000, of which the United States has 7,800,000.

Miss de Milhau was the winner of the Croix de Guerre, in a motorcycle speed cob in Southampton, L.I. In 1916 Miss de Milhau went to France with a motor ambulance equipment for work in the war zone.

Travelling grocery stores are operating in the Middle West, constructed on a large motor chassis for the convenience of rural communities. There is no rent, heat nor light to pay, and the provisions are offered for sale at wholesale prices.

A recent discovery was made by the Manchester (England) College of Technology of a new vulcanizing process. The importance of the discovery is said to lie in the fact that it makes cold vulcanizing possible, and is expected to have far-reaching effects on the rubber tire industry.

Motor cars at present are licensed only for business purposes in Germany, and police traps are constantly set in the vicinity of race tracks, suburban resorts, etc., especially on Sundays, to see that automobiles are being used only on business errands and only by persons to whom the license has been granted.

**DODGE BROTHERS**

**4 DOOR SEDAN**

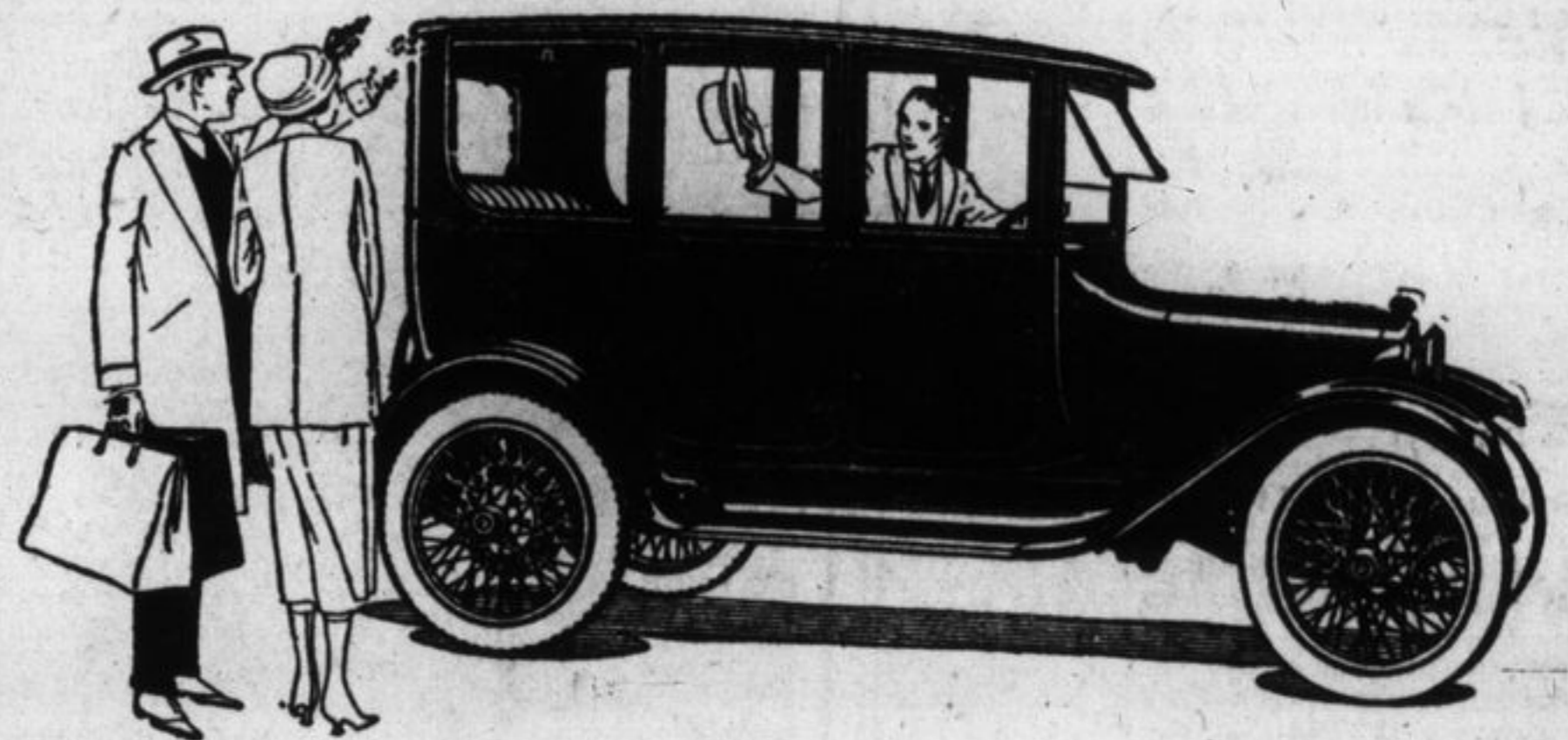
In these days of mounting costs, the steady economy of the Sedan stands out in pleasant relief.

Here is comfort of the highest order at a most moderate monthly outlay for operation.

The gasoline consumption is unusually low. The tire mileage is unusually high.

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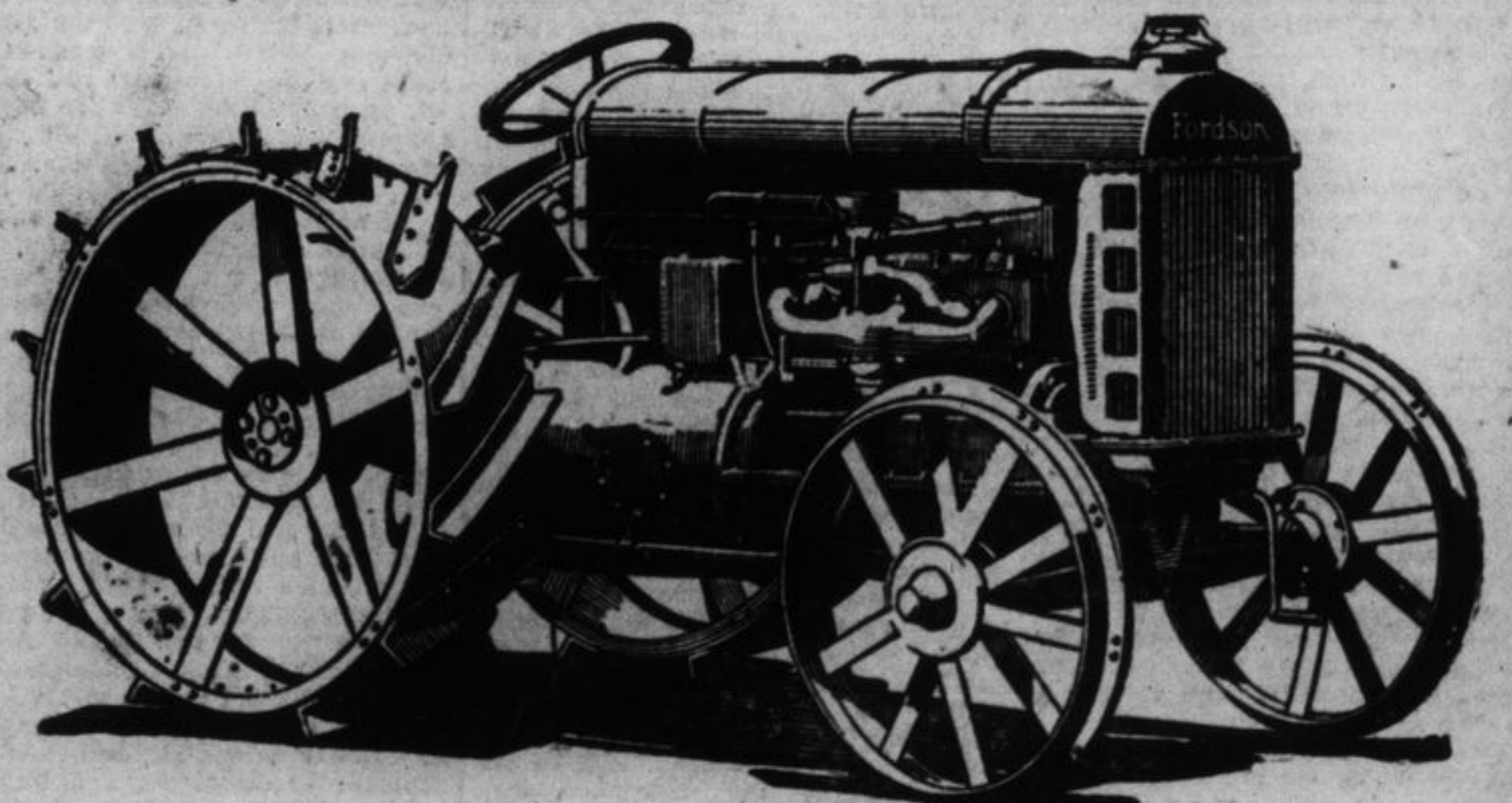
We have a model "M" Samson Tractor on hand and we invite your inspection. One glance and you will know that we have a real proposition. Get in line for a demonstration.

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