

PETTIJOHN TAKES NEW TRUCK LINE

Local Auto Firm Has Agency For International Motor Trucks Here

The F. W. Pettijohn Co. has been appointed dealer for International motor trucks for Marion and Polk counties. The line has not been handled actively here for several months and the new connection is made at the beginning of the selling season.

In connection with the taking of the agency F. W. Pettijohn announces that the International is now putting on the market a new 2-ton speed truck. Deliveries will be limited in February, after that supply is expected to catch up with demand. This truck is known as the model A-5.

Model A-5 is powered by International Harvester's six cylinder valve in head engine, with a 3 5/8 inch bore and a 4 1/2 inch stroke and 279-inch piston displacement. It is set in a three-point mounting with rubber cushioned rear supports.

The cylinder block is cast in one piece and the engine has removable cylinder sleeves, two piece head machined combustion chambers, seven bearing crankshaft of drop forged high carbon chrome nickel alloy steel, heat treated statically and dynamically balanced. Three wheelbase lengths are offered, of 156, 190 and 210 inches. The frame is of pressed steel channel, with a deep center section. Pressure feed lubrication is used to all main connecting rod, cam shaft and rocker arm shaft bearings. No pipes are used, as the drilled cam shaft acts as an oil distribution manifold.

The transmission, five speeds forward and one reverse, selective sliding gear type, is mounted in unit with the engine. Drop centered I-beams are used for the front axles, steel forged and heat treated. Reverse Elliott type steering knuckles are of drop forged, heat treated chrome molybdenum steel. Ball bearings have been used for vertical king pin load. In the rear a semi-floating spiral bevel gear type mechanism is employed with a heat-treated steel driving shaft, set in a malleable iron, banjo-type housing. The differential bearings are tapered rollers and pinion straddle mounted on ball bearings. Wheel bearings are of the combination straight and tapered roller type.

Local Auto Dealer Urges Check Oil

Chas. Vick of the Willys Motors, Inc., brings to the attention of automobile owners the necessity of examining the oil in the crank case of their motor. During a cold weather period such as we have just passed through the choke on your carburetor has been used much more than in ordinary weather, therefore a lot of raw gasoline has gotten by the pistons and into the crankcase which tends to dilute the oil. Mr. Vick says that this will be much more noticeable in cars that do not have crank case ventilation. The newer models are now quite generally equipped with crank-case ventilators, but most of the older models are not. As you take a few moments to examine the oil in your crankcase it will be time well spent and if you find the oil either dirty or diluted with water and gas be sure to change it to protect the bearings as the old adage is still quite true that a stitch in time saves nine.

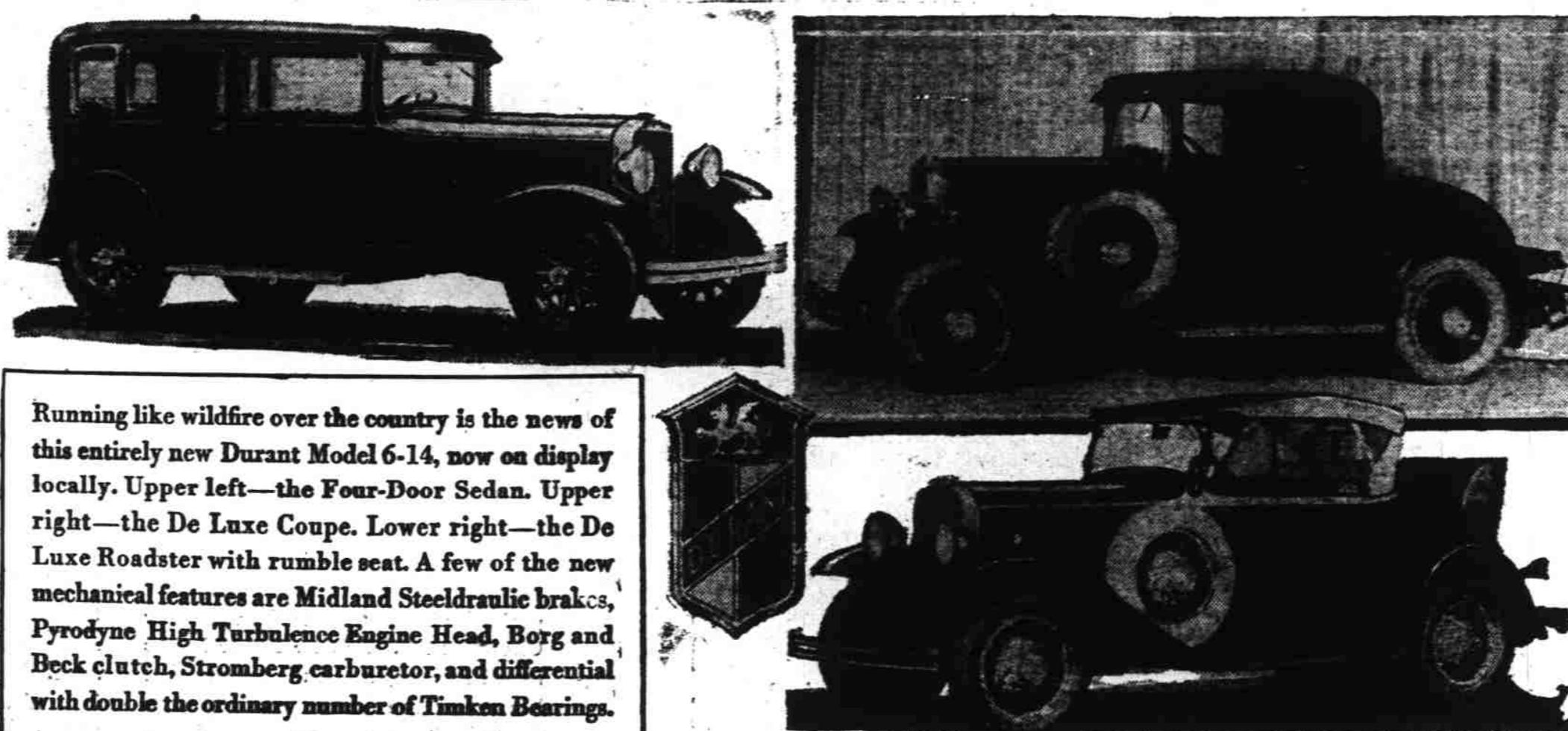
Can you afford to be without the protection afforded by the \$1.00 accident policy issued to Statesman subscribers.



VALLEY MOTOR
Best Values This Week

Model A Fordor	\$550
Model A Tudor	\$450
Model A Sport Coupe	\$495
Model A Standard Coupe	\$475
Model A Sport Roadster	\$450
Model AA Truck Cab Body—6 speeds	\$545

Valley Motor Co.
Corner Center and Chemeketa Tel. 1995

ENTIRELY NEW DURANT DISPLAYED

Running like wildfire over the country is the news of this entirely new Durant Model 6-14, now on display locally. Upper left—the Four-Door Sedan. Upper right—the De Luxe Coupe. Lower right—the De Luxe Roadster with rumble seat. A few of the new mechanical features are Midland Steeldraulic brakes, Pyrodyne High Turbulence Engine Head, Borg and Beck clutch, Stromberg carburetor, and differential with double the ordinary number of Timken Bearings.

PHYSICIST MAKES ELECTRON CAMERA

By HOWARD W. BLAKESLEE
Science Editor
(Associated Press Feature Service)

ITHACA, N. Y.—(AP)—If the sun should turn pale green at sunset and streak the sky above the dim, green, rainbow-shaped arches, the scene would be a perfect copy of exquisite pictures filmed by a new kind of camera at Cornell university.

The camera uses electrons instead of light, and its "sunset" views are made by reflecting electrons from metallic films too thin to be seen with the eye but revealing beauty in the infinitely small things that matches nature's grand scale displays.

This camera is the only one of its kind in the world, devised a few months ago at Aberdeen university, Scotland, by Prof. G. P. Thomson, a young English physicist, who is eminent in the scientific world. He is professor of natural philosophy at Aberdeen, and is at Cornell this semester as George F. Baker non-resident lecturer in chemistry.

Some of the electron pictures show the tarnish on copper, the kind that housewives get rid of with a polishing rag. A small piece of copper is burnished for use in one of Dr. Thomson's experiments and allowed to lie untouched for an hour in a room of ordinary temperature and cleanliness.

At the end of the hour its luster is undimmed, but speaking scientifically, the film of tarnish already should have started, and the camera will show whether it has.

The copper is placed in a vacuum in the middle of the camera, adjusted so that it can be moved about by holding rods.

At one end of the camera is a long vacuum tube of glowing light, its energy 30,000 volts as compared with the ordinary 100 volt energy of radio tubes. This tube projects a beam of the electrons through the middle of the camera directly past the copper and ending on a fluorescent glass plate at the opposite end.

Their impact makes a small, round, bright green spot whose glow softly illuminates the entire glass plate. When the bit of copper is manipulated to thrust it into the electron stream, the spot

NEW HIGHWAY MARKINGS

As an additional safety precautionary measure, the Oregon state highway department is marking railroad crossings on the main thoroughfares in the manner pictured above. This type of warning is said to be particularly effective on foggy nights when a motorist is concentrating his entire attention on the highway directly before him and may not observe the usual "X" post at the side of the road. The car is a Pontiac Big Six sedan.

of light begins to eclipse, with all the twilight effects of a green sun setting behind the earth's shoulder.

As the electron sun sinks, green arches begin to appear above it, gradually filling the photo plate with a geometrical pattern. This pattern reveals the nature of the substance reflecting the electrons, and in this case it is copper oxide, which laymen know as tarnish.

Now catalysts are commonplace in chemical manufacture. They usually are small foreign particles which help to change

one substance into another nearly like it chemically, as coal into oil, or to make new compounds.

Much remains to be learned about them and Dr. Thompson's camera is a new tool for the purpose.

By carrier you should receive your copy of The Statesman not later than 6:30. We guarantee carrier service.

STUDIES ARE MADE OF VOCABULARIES

MINNEAPOLIS (AP)—Persons interested in improving their vocabularies and reading abilities but unable to take special training courses, may take hope.

Dr. Alvin C. Eurich, psychologist of the University of Minnesota, finds that intensive application by college freshmen to reading and vocabulary studies is the principal requirement for progress.

This interest in learning accomplishes almost as much as special drills.

He experimented with two groups of freshmen of about 100 each. One group spent all of its time in study of English composition. The other spent 17 minutes of each class period on special drills.

After several months both groups were tested for reading comprehension, memory, speed of reading, general vocabulary and intelligence.

The gains in general mental discipline of both groups came out about even. Those who had special drills improved more than the other group in the materials of those drills, but in the general functions trained both improved at the same rate.

DESO TO EIGHT IS IN GREAT DEMAND

The demand for the new De Soto straight eight, following the exhibition of the car at automobile shows throughout the country, has brought a heavy volume of orders to the factory in Detroit and established a fresh production record for the first month of the year, it is announced by L. G. Peed, general sales manager of the De Soto Motor corporation. Beginning with the first presentation of the car at New York, orders running to trainload quantities have been sent in by both the eastern and western sections of the country.

These new orders for the straight eight, which is the lowest priced eight in the world, are responsible for carrying the total production of eights and sixes for the month well beyond the corresponding month of 1929, when the six alone was produced. The early demand for the new eight, which is a Chrysler creation possessing all of the fine performance characteristics of the six, is for heavy duty and the other a cheaper grade.

"Now that winter is over," said Smith, "it is a good time to test batteries and brakes and be ready for the spring driving season."

plus the added power and improvements of the new motor, unseated body and other features, is also ample proof that favor is turning to eight-cylinder automobiles.

"De Soto production for January this year was 20 per cent higher than it was for January, 1929," Mr. Peed says in an address to W. L. Anderson, local De Soto dealer.

Firestone Expands Line of Products

The Firestone organization has added to their lines of manufacture in recent months, said Jim Smith of Smith and Watkins, local Firestone dealers. To their well known lines of tires and rubber goods they have added batteries in both "standard" and "supreme" grades, and brake lining. The two grades of batteries appeal to two price classes, one is for heavy duty and the other a cheaper grade.

"Now that winter is over," said Smith, "it is a good time to test batteries and brakes and be ready for the spring driving season."

Willys Motors Co.

Henry Lzcar 515 South Commercial St. Chas. H. Vick

The New Whippet Four. Four door Sedan, fully equipped at \$745.00, at Salem, is on display on our show room floor. This is the lowest priced Sedan on the American market and is a quality car throughout. Very economical in operation, making between 25 and 30 miles to the gallon of gasoline. It has a full force feed, oiling system, silent timing chain instead of gears. These features are seldom found in cars of this price. We invite you to look over our display of cars.

**You can look without buying.
Why Buy Without Looking?**

Our shop service is second to none. Let us overhaul your motor and have it ready for another busy season. Our shop foreman has been with the Willys-Overland line for years and is very competent to handle all repairs.

Yours for service,
WILLYS MOTORS INC.

**EVERYWHERE, THROUGHOUT THE WEST, THOUSANDS PAID TRIBUTE TO an Entirely****NEW DURANT**

Throngs surged through salesrooms of Durant dealers everywhere to inspect the marvelously-engineered, Entirely New DURANT 6-14.

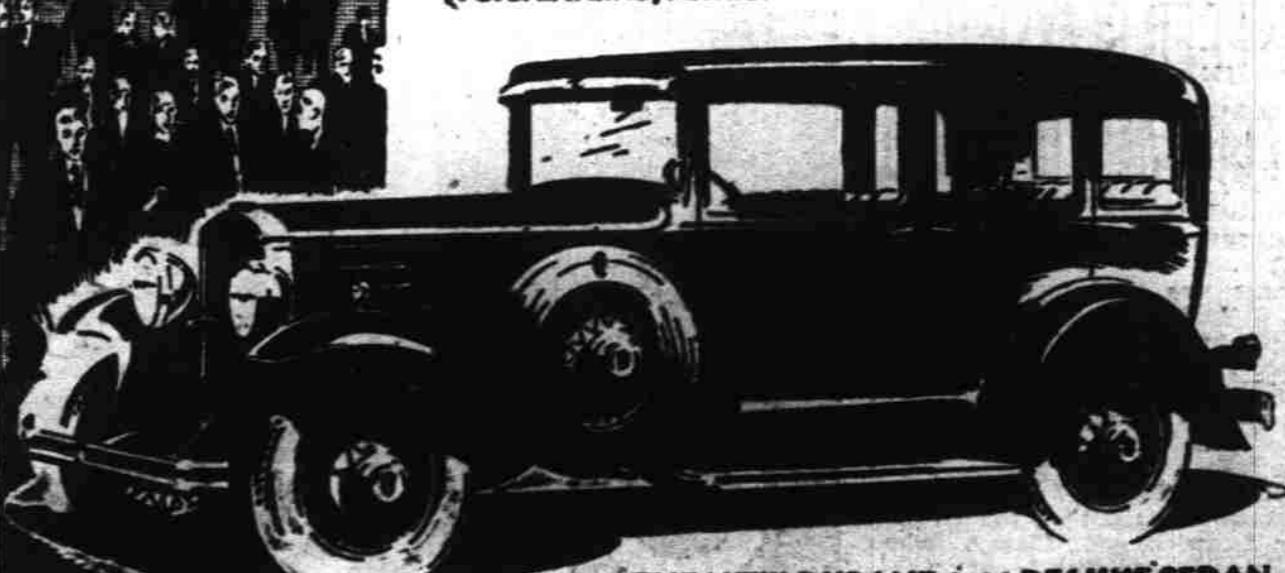
Everywhere praise was loud for the great list of mechanical superiorities... particularly for Midland Steeldraulic Four-Wheel brakes, Pyrodyne high turbulence head on the Durant-designed Continental Motor, Stromberg Carburetor, Borg & Beck Clutch, heavy frame doubly reinforced at load points, extra large axles, and a new differential with double the ordinary number of Timken bearings. You will not be automobile-wise until you have inspected and driven this Entirely New Durant that has swept the West since its introduction to motorists one week ago.

PRICES STARTING AT

\$785
F.O.B. LANSING, MICHIGAN

THE WORLD'S GREATEST AUTOMOBILE VALUE

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