

MILLIONS SAVED FOR CAR BUYERS

Automotive Research Work Reduces Cost to Buying Public.

DETROIT (AP)—Automobile buyers of the country are being saved millions of dollars annually in the cost of their cars through research and standardization of parts and practices in the automobile industry.

Through standardization of minor parts and fittings and other fixtures of the automobile, which in no way affects the originality of design, the Society of Automotive Engineers estimates that the savings to buyers is \$840,000,000 a year. The calculation is based on the total valuation of \$1,700,000,000 of all cars and parts produced in a year.

In cooperation with the automobile industry, equipment manufacturers and others, the engineers and designers of the United States Bureau of Standards have brought about a great reduction in the number of sizes and sizes of engine parts, bolts, couplings, and other machine fittings.

To the buyer this might seem a trifling achievement, but it has been responsible in large part for the reduction in the price of the car and in making it possible to buy a much better car for the same money he paid a few years ago. Standardization, to a certain extent, also has been effected in the manufacture of automobile tires, but further reduction in the number of sizes is hoped for.

Work in the automotive laboratories has resulted in far more powerful engines without increase in size or cost, engines which will stand the punishment of hard use long after those of a few years ago would have gone to the junk heap.

Standardization has been a two-bladed knife in cutting manufacturing costs. Multiple operation machines which do the work formerly performed by crews of men and turn out a more uniform grade of work have greatly reduced the cost of labor, while at the same time reducing expenses by speeding up production.

tempt to determine the center of the disturbance. If certain lines through the district are found most frequently subject to tremors, it is possible that lines of concrete posts may be erected to mark them and to use as geodetic checks on horizontal and vertical land movements. The survey includes portions of Illinois, Missouri, Kentucky, Tennessee and Arkansas.

Car Engines Are Inclined to Loaf in Humid Weather

WASHINGTON (AP)—Like human beings, automobile engines are inclined to loaf on the job when the weather is humid or "muggy." The bureau of standards has completed humidity tests with a well known type of automobile engine. The loss of power the bureau found to be directly proportional to the amount of moisture contained in the air.

"This does not necessarily mean that the engine has less power when it is raining," the bureau explained, "as it is quite possible to have more moisture in the atmosphere on a hot 'muggy' rainy day with no rain than on a cooler rainy day. In other words, the loss of power is proportional, not to the relative but to the absolute humidity."

Power losses between a very dry day and a very humid day, it was said, may be as large as 10 per cent. Other effects of high humidity noted by the bureau are decreased detonation, enriched mixture, and, in effect, retarded spark. These effects, it was pointed out, tend to make the automobile operate more smoothly.

Jewelry Tinted By Electric Process

NEW YORK (AP)—Tungsten, familiar in electric light filaments, now furnishes beads of rare colors in a development of the jewelry industry.

The process resembles dipping the beads metal in a rainbow and withdrawing it coated with permanent color. This is illustrated in a glass tank set up at the Museum of the Peaceful Arts here. Immersed in liquid in the tank, a piece of the metal becomes encircled with a ring of glowing color when an electric current is turned on. The colors pass successively through every shade.

They are due to a film forming rapidly over the tungsten surface, an oxide, made of oxygen combined with the metal. It is like rust on iron, except that it is intensely hard. The film is semi-transparent, so that light reflects both from its surface and from the metal underneath, and the reflected light waves overlap and break up into colors. The color depends on thickness of the oxide coat. The electricity can be snuffed off at any desired color, which remains permanent, unless washed with a caustic solution.

Tantalum, and columbium, a still rarer metal, are said to take exquisite color effects. Tantalum is used for making necklaces, bracelets and other jewelry.

TO TAKE SENATE SEAT CHEYENNE, Wyo., Dec. 6 (AP)—Patrick J. Sullivan, appointed to the United States senate to temporarily fill the vacancy caused by the death of the late Francis E. Warren, left for Washington today.

EUGENE MOTORIST KILLED ALBANY, Ore., Dec. 6 (AP)—When his automobile skidded on a fog-slicked highway near here, H. E. Spencer, 69, Eugene, Ore., was killed yesterday and Mrs. Adie Goddard, also of Eugene, who was riding with Spencer, suffered a wrenched back and broken nose.

Two Cars Keeping Peace in Family



George Herriman, famous cartoonist, originator of "Krazy Kat," likes harmony in his family, so he purchased two cars—both 1930 Buicks. Pictured here is the satisfied couple in front of their attractive Hollywood home. At the left is the artist's impression of just what is going to happen on his first trip to the cactus land—the hope of his picture folk.



HALT! YOU ASKED AT THIS JUST BECAUSE THAT 1930 BUICK CAN GO A HUNDRED MILES AN HOUR. YOU CAN CUT GROUNDS THROUGH CACTUS LAND WITH IT.

Seattle KOMO—8, NBC; 9, concert and musical programs. San Francisco KFO—6, NBC; 9, concert; 10, dance music. Oakland KGO—5, NBC; 8:45, studio program. J. Waddy Tate, mayor of Dallas, favors a calendar of 12 months "if all holidays would fall on Monday, church services were held once a month and workers received an extra month's pay for that extra month."

GARAGE GOSSIP

Free Battery Testing—Periodic battery testing is one of the free services provided by the Willard Battery station at 213 Greenwood street. Battery users are always welcome to this service, C. W. Rine, manager of the station, announced today.

From Portland—Ed Knox, from the Howard Auto company in Portland, and E. W. Brumbaugh, Fisher body representative, whose headquarters are in Portland, were callers at the Jennings Motor company this week.

Distributor Here—S. S. Sares, of Pendleton, distributor for the Chrysler motor cars in Western Oregon, was in La Grande Thursday calling at the Chrysler garage. Mr. Long, from the district office of the Chrysler Motor company in Portland, accompanied him.

Bought a Truck—To La Grande bakery has purchased a ton and one half truck from the Larson Chevrolet garage.

Prestone Representative—Normal Wood, representative of the Prestone Tire and Rubber company, was in La Grande this week on business, calling at the Perkins' Motor company.

Carload of Oil—A carload of Quaker State oil has been unloaded, the Perkins' Motor company announced yesterday.

A. A. A.—Mrs. Charles Devine went to Pendleton yesterday afternoon on a business trip concerning A. A. A. matters.

Imperial Sedan—Frank Jones, of Hillsard, has purchased an Imperial sedan from the Larson Chevrolet garage.

Some of the writers covering the stock market recently seem to have seen things differently. Some called it a debacle and others described it as a readjustment. The Tunneys have set sail for home, it is reported. Mr. Tunney, you know, is the man who was sued.

TIMBER WORK THIS YEAR IS ON DECREASE

KLAMATH FALLS, Ore. (AP)—Analysis of timber production in the Klamath basin so far this year shows a decrease of ten per cent over that of the same period last year, and the total production will show the same decrease, timbermen say.

Working time was cut from a six-day, eight-hour shift to a five-day, nine-hour shift in most of the mills, with all plants running double shifts throughout the season. A poor timber market was given as the reason. The total cut so far this year in the district is about four hundred million board feet, while in the same period last year 450,000,000 board feet were cut.

It was expected that the 1929 payroll would not exceed \$5,000,000 as compared with \$12,000,000 for last year. No decrease in the number of men employed has been made.

Sweet Corn Patch Nets Large Profit

YAKIMA, Wash. (AP)—Remarkable results were obtained with sweet corn this season by R. E. Drummonds of the Tietonview district near here. On three and one-half acres he produced six tons and 740 pounds. The corn was given the best of care and yielded at the rate of five to seven tons to the acre, while on most tracts the average was three cars to the acre.

The crop at five cents a pound returned the grower \$627 or \$182 an acre.

Artichokes Grown At Hermiston, Ore.

PENDLETON, Ore. (AP)—Ranchers in the Hermiston section of Umatilla county next year will devote a large area to the raising of Jerusalem artichokes. The land in that particular territory was found suitable for growth of the tubers. Ranchers have contracted 525 acres and will receive \$15 a ton.

Scientists will seek the positive zero. Our idea of that would be a copy of Scaphon's Analysis in a football dressing room.

4-SPEED GEARS ARE STRESSED BY EUROPEANS

WASHINGTON (AP)—European manufacturers are hard at work to match the performance of American automobiles. Such was indicated by the twenty-third Annual International Salon at Paris, Europe's most important automobile show, according to a review received by the department of commerce.

Special attention has been given by foreign manufacturers to obtain suppleness, power and silence characteristic of the American cars. Suppleness is the ability of a car to run slowly or rapidly under a considerable pull without shifting gears. Much gear shifting has been necessary with most European cars in traffic and on hills.

There was little in the salon to be considered revolutionary, effort apparently having been concentrated on improved performance and more comfort. A definite trend toward the four-speed car with a silent third gear was one of the most marked features of the show. Several European manufacturers have had four speeds forward for some time, but it was only this year that they have worked out the silent third gear.

One hundred and sixteen makes of cars, 56 of them French and 40 American, were shown at the Salon. Eight nations were represented by exhibitors.

LEARN NEW WORD

LOS ANGELES, Dec. 5 (AP)—"Mangle," Mrs. Mildred Hamann's parrot, has learned a new word. Mrs. Hamann ran the needle of her sewing machine through her hand and unable to extricate herself, attempted to call for help. "Mangle" cocked her head on one side, digested the new syllable and went into action. Help immediately was plentiful, including the fire department. Mrs. Hamann was extricated and taken to a hospital for treatment.

"An Era of Chance" says a headline over a story describing activities in Wall street. The word left out was "fat."

Henry Ford has bought a west-ern gold mine, says a newspaper dispatch. That makes two he has now, including the one in Detroit.

BEFORE YOU TAKE YOUR MINK

SUNDAY PROGRAMS The National Broadcasting company program for Sunday follows: 12 M. to 1, Youth conference; 1 to 2, Cathedral hour; 2:30 to 3:30, music; 4, concert; 5, melodrama; 5:30, records; 7:15, popular music.

The Columbia Broadcasting system program for Sunday follows: 6 to 7, Theater of Air; 7, Jesse Crawford, poet of organ; 9 to 9:30, and 10:30 to 12, dance music.

Tacoma KVI (764kc) 6:15 to 9, silent; 9, CBS; 9:30, Sicilian; 10:30, CBS. Spokane KHQ (590kc), 12, NBC; 8, musical programs.

Portland KGW (620kc) 12, NBC; 8, musical programs; 10, little symphony. Oakland KIX (880kc)—Silent night. KGO (790kc) 5:15, NBC; 6, news; 6:15, NBC; 8:15, Pilgrims; 9, reader's guide; 9:30 to 10, little symphony.

Los Angeles KNN (1050kc) 6, talk; 7, features; 8, Presbyterian church; 9, records; 9:15, Laboviski trio, KHL (900kc) 6, CBS; 8, musical features. KFI (640kc) 5:15, NBC; 8, Sunday program.

San Francisco KFRG (610kc) 6, CBS; 8, musical program; 9, dance music. KPO (680kc) 5:15, NBC; 8, music and word.

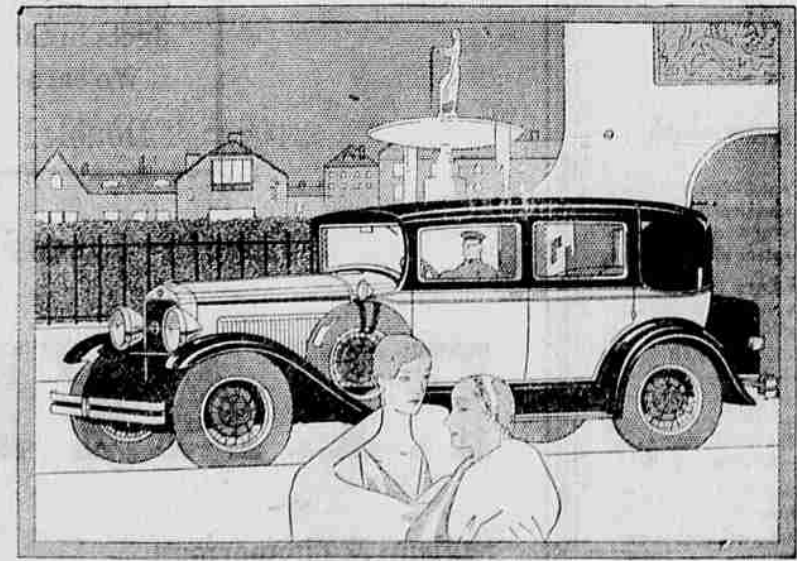
Salt Lake City KSL (1130kc) 5:15, NBC; 8, L. D. S. church services.

MONDAY PROGRAMS NBC; 8 a. m., Happy time; 10, Woman's magazine; 1:30, Vaudeville; 3, L. D. S. tabernacle; 4:45, Back of News in Washington; 6, musical program; 6:30, Family party; 7:30, Empire Builders; 8,

LET CHRISTMAS BRING TO YOUR FAMILY -- The Keys to Happiness!



What a glorious Christmas for the whole family to find the glistening keys to a new Studebaker Eight on the tree Christmas morning! Winter days - Summer days - year after year of stylish comfort, easy riding, flashing speed, and economical ownership. A beautiful gift for the family!



Surprisingly Easy to Buy! Special Christmas terms puts your new Studebaker within reach now—delivery on Christmas morning. Only— \$345 down

Balance at your convenience and a liberal allowance on your own car. Come in today!

Tropic Air Heaters M. J. GOSS Studebaker & Oldsmobile Sales & Service Firestone Tires

GIVE YOURSELF THIS CHRISTMAS PRESENT

We wish to suggest that every motorist who does not carry complete auto insurance can find a whole year's peace of mind by presenting himself with one of our policies — protection against loss by fire or theft—collision, property damage and public liability.

Payments can be arranged over a period of months —you pay while being protected.

Don't wait for Christmas but do it today.

UNITED STATES INVESTMENT CO. O. W. Warnock, Mgr. 113 Depot St.