The New ORFGON STATESMAN. Salem, Uregon, Sunday Morning, March 3, 1929

Horn Guarantees Noise-That's All! **RAISES COST** Water Formed in Combustion of Unburned Gasoline Cause Trouble Lack of proper lubrication is he principal reason why many notor cars must either be scrap-HOR ed or given expensive service atention after only two or three ears of operation, according to Dakland Motor Car company auomotive engineers. The most common cause of aulty lubrication is found in difution of the oil in the crankcase. As dilution reduces the viscosity of the oil, the rate of wear on noving parts rapidly increases. Two principal sources combine o cause this oil dilution. The first source of dilution is the water formed during combustion through the chemical combination of hydrogen in the gasoline and oxygen in the air. Almost a gallon of water is formed for every gallon of gasoline consumed. The second source of dilution is found in unburned or imperfectly burned gasoline which remains in the cylinders especially when the choke is used to start the en-

gine.

In motor cars of modern de- DON'T depend too much on your horn. Sure, it's a good old trumpet ments, has increased many times and jelly in the world. in motor cars of modern de-sign such as the Oakland and out of the hospital. Often there's another fellow speeding along just Pontiac sixes, the crankcase oil is around the corner. He may be deaf as a post or he may be pounding protected in two ways from this his own noise-maker for all its worth, figuring, like yourself, that the right-of-way belongs to the horn-tooter who toots the loudest and two-fold dilution-first by therlonge

mostatic control of engine tem-The National Safety Council points out that the auto horn guarperature and second by crankcrank- antees nothing except noise. Prive slowly-and then you won't have to case ventilation.

In a cold automobile engine

only a small portion of the gas-oline becomes vaporized. And ed liquid gasoline works down Charles Chaplin

only vaporized gasoline will burn. past the piston rings and drops The normal mixture ratio is a into the crankcase, diluting the warm engine is approximately 13 oil. parts of air to one part of vapor-

The thermostat which prevents ized gasoline. But when the chill circulation of water in the coolof a cold engine permits only a ing system until engine heat stricken Monday with ptomaine more rapidly; within half a cenfraction of the gasoline to vapor-reaches 140 degrees, reduces the poisoning had improved today to tury, the cast-iron plowshare made period, of imperfect vaporisation the extent that a lounge was the distribution of the state of the stat disturbed that the engine must and naturally shortens the time moved into his room and he sat first chilled plows were put on be choked. The choke cuts off during which this type of dilution time for several hours, his physi-the market. In 1833, John Lane, part of the air supply to the car-buretor with the result that the tested warm up slowly and suffer tected warm up slowly and suffer engine receives 10 or 12 times a consequent increase in dilution Tuesday night with an added at-1850. the normal amount of gasoline. by gasoline, This is necessary in order to pro-

wide that one part of vaporized rapid warming up through ther-Another important advantage of now is rapidly recovering. gasoline required to produce mostatic control is the reduction combustion.

of the time during which the water

OPEN AIR MARTS **Tractor Development is Traced by Expert; Fifty** Years Sees Great Advance

Development of plowing on the ciation of its many angles. Mr. ginning' to go together in Los farm from the stage of earliest and Nunn's patent specifications and Angeles and Hollywood as nacrudest boards and iron plows to claims are a work of art. modern machinery, methods was discussed before the power farm-From 1866 on, interest increasing conference held at Corvallis ed, due partially to the develop- ting the principal thoroughfares this month. Speaking on the sub- ment of the steam engine as a of the southern California metroject "Tractor Farming," J. A. Mc- source of mobile agricultural pow- polis, are the reason. These mared. In the late 80's and all through kets, offering every conceivable Donald said in part: "One hundred years ago, a man the 90's, we find many patents on household commodity, are a strik-

by working hard all day, could track-laying attachments for tarc- ing innovation in convenience, care for the crops on 12 acres of tion engines, most of which prov- busy shoppers have found. land. At that time, it required ed incapable of operation when three men, four to six oxen, and built, but many contributing a tremendous amount of physical some small usable item. labor to plow from one to two This brings us up to the time mount scren star, in a Silver Anwhen the problem was attacked niversary Buick, practically everyacres in a day.

Today, one man-sitting on a by the men who were eventually thing from pins to cabbages was tractor pulling a 3-bottom plow- successful, namely, C. L. Best of purchased. The range of commoplows ten acres in the same num- San Leandro and Benjamin Holt dities offered by those unique ber of hours, and 17 to 18 acres of Stockton. From this time on, de- markets was found truly amazing. with a 5-bottom plow, thus ac- velopment was much more rapid. There are fruit and vegetable sec-

complishing from 25 to 30 times as much as his great, great, grandfather.

Advance Now Rapid

BIG The year 1850 marks the beginning of modern agricultural machinery; previous to that time, the harrow and the plow were practically our only agricultural implements, although a few crude types of grain drills, mowers,

reapers, rakes, etc., had been capitalized at \$5,000,000 has ways or parking stations. There worked on from about 1800. From bought Best Clymer Co. for \$1,- the motorist may park while shop-1850 to 1928; the farmers' effi-ciency, due to improved imple-largest packer of preserves, jams car and order whatever is wanted.

The new organization is carrying on an extensive campaign for advertising honey, which will

The whole development of ma- benefit beekeepers everywhere in chinery has been a very gradual this country, by increasing the per unit as the private automo. one; for example, it required more demand for their product.

than 2000 years to change the shaped wooden plow, shod with iron, into a plow that had a curved moldboard and that really turned over the dirt instead of merely stirring it. The Dutch people, in 1700, perfected mold-Much Improved board plows, some of which were exported to England in 1730.

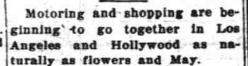
Chilled Plows in 1808

LOS ANGELES, Mar. 2-(AP) From then on, development came -Charles Chaplin, who was cian, Dr. Cecil Reynolds an- and in 1837, John Deere, made the nounced. The motion picture first two steel plows, which were comedian had been critically ill not put on the market until about

000 years.

tack of intestinal influenza but First honors go to a certain Aaron Palmer, who, in 1837, realized the limitations of wheels and

Modernistic art in one of its took out a patent on a kind of



Open air markets, that are dot-

On a recent tour of such markets made by Mary Brian, Para-

tions, the grocery area, the meat

divisions, the delicatessen counter, hot lunch stands and even drug stores. Florists are taking space in many of them.



subsidiary of Linseed Oil, and ters. Many of them have drivecar and order whatever is wanted.

> Common carrier buses pay in special taxes 24 times as much bile.

Six-sevenths of the railroad Automotive exports have adtaxes allocated to highways are vanced from third to second place used for local roads over which in American shipments abroad goods are moved to rail terminals. during the past year.



Miller Tire Service So. Commercial at Ferry - "Russ" Smith - Phone 313 ASSOCIATE DEALERS -Harbison Stations-Capitol at Market - West Salem - 1095 So. Com'l. St.

Studebaker's CTATO ... champion in comfort

vapor of combustion may con-most dazzling forms is portrayed tread-mill affair. This was follow-ed by patents on track-laying Engine Warms Quickly The remaining portion of liquid dense into liquid through contact in a body by Fleetwood on the boats, road carriages and railway gasoline has insufficient time to with cold cylinder walls. This wat- Cadillac chassis which has attract- trains. burn during the brief period of er vapor may work past the piston ed unusual attention at the nathe explosion. A small amount of rings into the crankcase although tional automobile salons. The 1867-is particularly outstanding this liquid gasoline may partially part of it usually is expelled colors are a strong combination for he was a technician who tack-

burn, leaving the kerosene "low through the exhaust.

The work of R. J. Nunn, in of polished metal and sable. led this problem with a full appre-

SALES 100% AHEAD OF LAST YEAR! Enurs Propert NEW **UPERIOR** NEW "FINGER-TIP January and February sales more than double CONTROL" those for same two months of 1928 The new Superior Whippet is off great success. Graceful lines, smart to a flying start! Its greater beauty colors, longer bodies, higher radi-

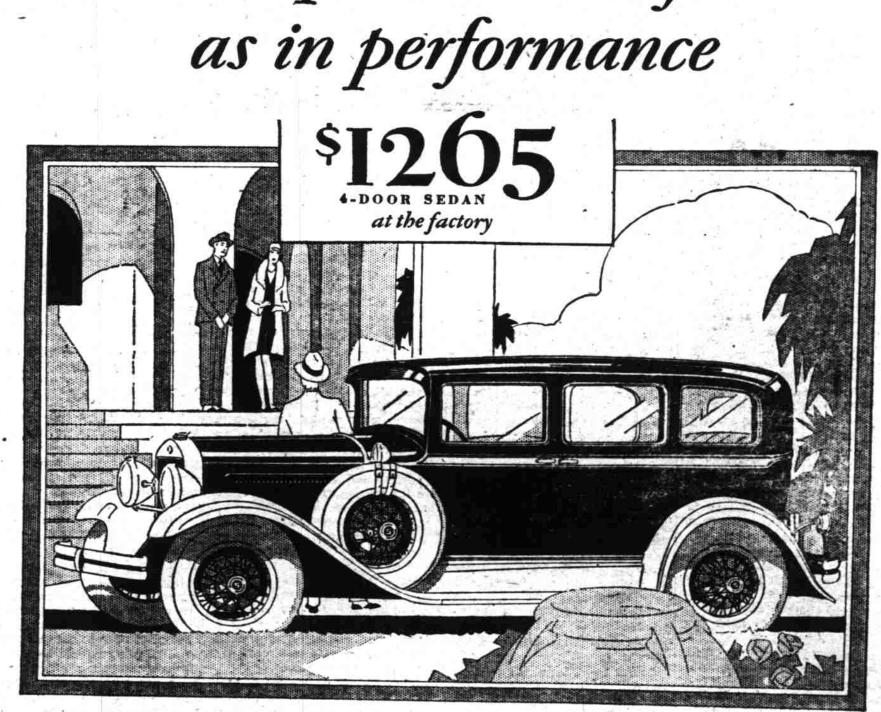
and larger bodies are winning instant success and nation-wide popularity, as thousands of new owners respond to the appeal of the unprecedented value offered by this finest of Fours and light Sizes. Sales for January and February showed a gain of more than 100% over sales for the same two months of last year!

See the new Superior Whippet, and you readily understand its

ator and hood, sweeping one-piece full-crown fenders, make it the style authority in its class.

Drive the Superior Whippet, and note the faster speed and pick-up of its new higher compression engine. which gives more than 20% added horsepower. And the new car is well qualified to carry on Whippet's unsurpassed reputation for dependability and minimum service costs.





THE DICTATOR ROYAL SEDAN - Six wire wheels and trunk rack standard equipment, \$1395. THE DICTATOR REGULAR SEDAN, \$1265. Prices at the factory. Bumpers and spare tires extra.

CTUDEBAKER'S Dictator, by its remarkable D stock-car record of 5000 miles in 4751 minutes, has certified the fleetness and staying power you may confidently expect from this great Six. Its 28 records for speed and endurance are not matched by any car at its One-Profit price.

The Dictator provides too, that matchless comfortassurance pioneered by Studebaker-ball bearing spring shackles. These, with The Dictator's new hydraulic shock absorbers, long, pliant springs and deep-sprung cushions, achieve travel ease un--known before Studebaker pioneered it,

The low-swung grace characteristic of the new Studebakers expresses beautifully The Dictator's champion performance. You sense at a glance the swiftness, the dauntless spirit of the car. You know it is fast, and sure, and capable, for it looks the part. And the world knows it too-just as it knows the 77-year-old name of Studebaker that stands four-square to back your judgment.

STUDEBAKER MODELS	AND BRIGE
A HE I resident Floht	40-4
The Commander Six or Eight	\$1785 to \$2575
The Dictator	1350 to 1675
The Erskine Six	1265 to 1395
The Erskine Six	830 to 1045
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Tune in "Studebaker Champions" every Sunday evening 7:15 to 7:45 Pacific Time Station KOMO-KHQ-KGW and Coast-to-coast network

