

Adheving to the eight-cylinder V-type engine first introduced three years ago, the new Cadillac models in-corporate unity forther refinements. The most important change is in the use of detachable cylinder heads. These permit easy access to the valves and permit easy access to the valves and one without removing the cylinder its and greatly facilitating removal

Carbon deposits. Another feature is the tilting head-mp reflector. This eliminates glare lowering the direction of light and operated by a small lever attached the started on high gear. lump reflector.

to the steering post. The gearbox has been made more plate is provided in addition to the over plate, and the countershaft over plate, and the countershaft of he removed through the bottom or without disturbing any other may be re

rempties liquid in the contensor under atmospheric pressure to the radiator. Changes apparent in exterior design include a rulaing of the radiator and hood. The latter is also two inches longer and a new cowl, square doors and increased legroom in the driving compariment better both appearance and conferent

tution of a larger hot-afr pipe to the

crank case being an aluminum casting. This case extends outward to the frame sides, and not only insures rigidity of the engine mounting, but noves the necessity of sheet metal filling plates or pans. The ell pump is driven by the camshaft, and can be quickly removed for inspection or cleaning, and the oil is pumped directly through leads to every working The touring car, roadster, sedan,

coupe and limousine are continued from a four-passenger sport model. The new sport body is mounted upon the regular chassis, except that it is fitted ratio of 1.7% to 1. The body lines are flexible tube formerly used, the mount-exceptionally good. In the vacuum tank on the dash instead of the engine, and placing the

### CHALMERS.

CHAIMERS. Western Motor Car Sales Compart. The most marked improvement is in the intake manifold design, styled ramsborn' construction. It is con-structed of simple piping, is exterior to the engine, and placing the carries the gas from the carburetor to a hot spot, in the side of the exhaust to the mixing, benefiting vaporization. This hot spot, however, that imparts heat to the mixing, benefiting vaporization. This hot spot, however, that imparts heat to the mixing, benefiting vaporization to the shot spot, however, that imparts heat to the mixing a thin plate partition di-ping the leng a thin plate partition di-ping the leng a thin plate partition di-ping the should be top of the car-bring and receiving its heat from the shoat spot, however, that maparts heat to the mixing a thin plate partition di-ping the leng a thin plate partition di-ping cushions—the upper deck being pring cushions—the upper deck being pring cushions—the upper leck being the shoar receiving its heat from the shoar receiving its heat from manifold and receiving its heat from turn. the exhaust gas. A rounding out of the line has also taken place, which new includes 10 body styles.

Interest Audio Company.
The Cole chansis has been unaltered, but is improved by the addition of a het spot manifold for the efficient handling of heavy grades of gasoline the unitely new one in this teriar is a new heavy ended the "newtype". A previous are used as stock accompany called the "newtype" areotype," to the point. The four-cylinder motor is to the point. The motor cylinder motor is to the point. The four-cylinder motor is to the point. The motor cylinder motor is to the point. The motor cylinder motor is force form are induced in the point of the poin

Toadater and "aportsics." A movelty in construction which is very ingenious is a fitting at the rear end of the chasels which will carry either a spare wheel or a spare rim. There is a massive bracket attached to the end of the frame, and for a wire wheel that supports a false hub. For a spare rim a set of arms is attached to the same bracket, these holding the m from the inside in a very neat way addition to the three new models a other types of Cole cars are con-

DODGE. Bound and the set of the

GRANT.

distributor on a short shaft, have made

HARROUN.

HAL

Western Motor Car Sales Company.

The Hal line includes four new mod

Namier Auto Company. Both internally and externally, Grant cars represent a refinement of the pre-vious six-cylinder model, though no radical changes have been made. The engine has the same dimensions as for-merly, but develops more power because reciprocating parts have been light-ened, the oiling system improved and the bearing surfaces increased, permit-ting a greater engine speed. Practi-lighting and ignition. The year also brought out a new type, the Sedanet, which combines all the features of the

the past season, and to these is added a four-passenger sport model. The new sport body is mounted upon the regular chassis, except that it is fitted with 32-inch wheels and has a sust with compared body is mounted upon the call where the the season of the ordinary closed car. All windows compared to the season of the season of the season of the ordinary closed car. All windows the ordinary closed car. All windows can be resided into the body with 32-inch wheels and has a sust the season of the the season of the se

LEXINGTON. Brunn Motor Car Company.

This car is presented in Portland for the first time Series R is an entirely

the first time. Series R is an entirely new model, having a Brush type frame similar to that of the Marmon. In this the running boards are used to add stiffness to the frame and welding re-places a great deal of the riveting. The frame is light and very much more visid then the normal type. Fabric Fabrie rigid than the normal type. Fabric disk universals are also a feature of this new chassis, eliminating all possi-bility of noise from these parts. Other novelties are the incleave within the gear case of the speedometer drive as

well as the tite pump gears. The emer-gency brake is also mounted upon the transmission. The wheels have sized felloes with good spokes, eliminating

## LIBERTY. W. H. Wallingford.

Fundamentally, the Liberty line fo Fundamentally, the Liberty line for 1918 is a continuation of the 1917 cars, as the chassis has been unchanged ex-cept for a few very minor refinements. The Liberty hot-spot, making for better gasoline mileage, continues to be an important feature. A new two-passen-ger roadster has been added, complet-ing the models, which are a four-pas-senger roadster and five-passenger touring car, a sedan, a brougham and system with heneycomb radiator, forced draft, housed-in air circulation are used. Lubrication is force feed and splash, with separate direct lead to each main bearing. Clutch is of the cone type, running in oil and faced with asbestos fabrie. Stewart vacuum feed gasoline system is used. The body is of welded pressed steel panels on framework of forged steel and wood. Times are 30216, with demountable touring car, a sedan, a brougham and a limousine. On the roadster model the features are attractive appearance. large amount of leg-room and excep-tionally large doors, these being 25 are 10x1%, with demountable Wheelbase is 106 inches.

inches wide MARMON.

der Knight engine construction

During the past year a double-six heavy corrugated rubber fabric.

OLYMPIAN. W. B. Doane.

This will be the first appearance and higher, and having This will be the first appearance of and fight, and having a sharp this car in Portland. The Olympian Motor Company is bringing out an en-tirely new model combining features that have proved satisfactory in the past, with others that are entirely new. windshields of the open models. On both models the gasoline tank has been placed in the rear, and Stewart vacuum feed is used. Mechanically few changes are noted. The oil pump on the eight-cylinder model has been placed at the base of the crankcase instead of on the eccentric shaft, de-creasing the necessary lift and permit-ting the last drops of oil in the base to be used. This change has also perast, with others that are entirely new. he body is a full streamline from the op and sides of the radiator, and the ides run into the frame on all models. ur hody styles are offered, a fiveassenger touring, a two-passenger ondster, a coupe and a sedan. A feaure of all these bodies is the arrange ent of the front compartment. This

nent of the front compartment. This sacces ibis from either door, without nterference with the control levers, placed beneather the instrument board and out of the way.

Though mounted on a chasis of 112used, and the cast-iron pistons have inch wheelbase, r'ding case equivalent to 115-inch wheelbase is claiméd, be-cause of the spring suspension. The rear springs are set crosswise with multiple disk clutch, as is used on the he frame and are of the inverted doueight-cylinder model, instead of the leather-faced cone type previously emthe frame and are of the inverted dou-ble semi-elliptic type, and their loca-leather-faced cone type previously em-ployed. All tools are carried in special center increases the spring action cen-ter distance, as would increased wheel-base. The front springs are suspended inside the frame members and insure stimulation that increased in the special compartments in the door near the place. STUDEBAKER.

ted upon the s have steel eliminating The engine gauge steel, and has a \$12-inch kick-up

PAIGE.

Cook & Gill.

the risk of rim splitting. The engine is a six 3½x4½ inches and has the Moore multiple exhaust system, which is an exclusive feature of all Lexington models since 1911. It has an ejector effect which relieves back pressure while helping muffling. There are three helping muffling. There are a chassis passenger, with two folding seats, a As the low-built "Spor-Tour" four-passenger this ter-integrated and has a sign and a convertible sedan. a with a torque of 90-foot pound at the price class. The series 19 Studebaker are a light four of 35 horsepower, 112-in-head engine, having tappets that inch wheel base; a light six of 50 horsepower, 112-inch wheel base, and a bix six of 60 horsepower, 126-inch wheel base. The bodies of all three

wheel base. The bodies of all three cars are of the full streamline type, low hung and clean cut. All doors swing from the rear in the new models. The Paige models for 1918, styled odel 33 and model 55, are in the direc-

STUDEBAKER.

Oregon Motor Car Company.

The front seats are continuous, with the advantage of increased body strength, the seat backs being designed to give double cowl effect. The slant-ing type of windahield has been adopt-ed for all models. The instrument boards in the for-ward commartments of all these modmodel 35 and model 30, are in the direc-tion of increased economy, better ap-pearance and greater driving comfort. Carburstion has been improved by a new manifold whereby the air is drawn through over the exhaust manifold, passed through the cylinder block to ward compartments of all these mod-els are of pressed steel, finished in ma-hogany. Folded into the back of the front seats in the big six are auxiliary seats, over which leather curtains drop the carburetor, and again back through the block to the intake manifold proper, in the passage becoming progressively heated. The valve arrangement has when they are not in use. These seats may be removed entirely if desired. The upholstering is all French pleated, been changed to permit a more direct passage of gas, and the diameter of the manifold throughout is maintained at a constant circular section, presenting a minimum wall area for any volume of big siz.

"sparkless" b a t- Battery Co., Alder at the SPECIALIST teries, etc. Offices 12th. Marshall 1752 changes in the past year have been in the nature of minor refinements and in body design. The body lines are en-tirly new, the radiator being narrower We Stock Them. We Repair Them. We Charge Them. Free Advice and Inspection. AUTO ELECTRIC EQUIPMENT CO., Sixth and Burnside Streets. Villard sharr

carries the rear motor supports and the battery. The general principles of design and including 34 body styles, purchasers

The general principles of design and including at body styles, purchasers construction employed in all three in nearly every price class field are cared for. And plans for the production of a smaller low-priced four-cyl-inder car are well under way. This body, giving it a continuous line of a maximum at the points and making a short turning radius possible. Inbody, giving it a continuous line of a support at all points and making a short turning radius possible. In-creased fuel economy has been effected in the new models by the use of a "hot-spotted" manifold construction. **VELIE. D. C. Warren Motor Car Company.** Nine new body types are mounted on the series 38 and 39 chassis, the latter being practically unchanged. More power has been of the riding qualities have been improved somewhat A lead-er among the new bodies is the sport model, which has exhaust pipes brought through the hood, and very snappy lines indeed. Others are the roadster, four, the series is a construction of the 1917 models, except that been changed from 37x5 to 35x5 inches.

Others are the roadster, fou been changed from 37x5 to 35x5 inches indeed. Others are the rousset, not, five and seven-passenger louring cars and town car, coupe, cabriolet and tour-ing sedan complete the line. All have straight lines and the radiator has been increased in height so as better the short who modern style. The short

### Southern Clackamas Men Named.

MOLALLA, Or., Feb. 1.-(Special)-The County Court has made the apto suit the modern style. The sport model has a Victoria top. pointments for road bosses and patrolman for Southern Clackamas County. Those appointed are: Wilholt District,

# WINTON. A. C. Stevens.

E. L. Palfrey; Liberal, W. J. E. Vick; Dickey Prairie, H. J. Rastall (also has charge of the Molalla District); Mar-quam, I. D. Larkins; Colton, W. S. Gor-Present chassis models 22 and 22A show no marked changes, engines in both models having the cylinder cast in pairs, with all moveable parts in-closed, and the camshaft and magneto bett; Yoder, A. F. Eyeman. Each of these districts has voted a special tax ranging from 5 to 10 mills. The people in this section are taking more interclosed, and the camebaft and magneto driven by a silent chain. The valves are all on one side, and are inter-changeable; and the aluminum crank-case is divided into upper and lower halves, providing accessibility to the cranks. The engine of the smaller car is 3% by 5% inches, that of the larger 4% by 5% inches, having an S. A. E. rating of 33.75 and 48 horsepower, re-spectively. High quality, combined with a great number of options as to body style and color, gives the purest in procuring good roads than ever before

Cottage Grove Rancher Dead.

COTTAGE GROVE, Or., Feb. 2 .--(Special.)-Charles Franklin Thornton died on his ranch near Cottage Grove January 31. He was born in Yamhili County in 1870 and had been a resident. of Cottage Grove, or vicinity, for 39 of Cottage Grove, or vicinity, 107 as years. Mr. Thornton is survived by his mother, Mrs. J. V. Thornton, of Cottage Grove, one son, Fred Arlo Thornton, of Canyon City, and two sisters, Mrs. Minnie Plaster and Mrs. Mabel Thompson, both of Cottage Grove. Funeral services will be held tomorrow afternoon at 2 o'clock.

Dr. Isnac Dellar, of Portland, who as been stationed at the Navy-ard at Bremerton, has just re-

being

indeed.

with a great number of options as to body style and color, gives the pur-chaser opportunity to obtain almost any type of car, each with an individ-ual appearance. Forty-eight body styles are suggested by the company, and these may be altered or adapted to the purchaser's suggestion, and the color scheme is completely at the op-tion of the purchaser.