the proper weight distribution and balance of materials with greater strength and lightness. They have borrowed from all engineering principles to accomplish their purpose. A notable feature in the construction of the chassis is its bridge design. Feeling that the same principles apply, those of great strength and flexibility, they are using the same bracing. Formerly the frame depended for its rigidity upon deep



Passenger Clover-Leaf \$925

Ensminger Motor Co. THIRD and CUMBERLAND STS Bell Phone 3515

Free

Repairs

means that every

Sterling tire that goes

out of our store will

be repaired free of

charge, whether the

damage is a blowout or puncture or from

any cause whatever.

This means a saving

of from \$5 to \$10 on a

tire. It's worth con-

108 Market Street

MAKING MACHINES
LIGHT IN WEIGHT

Channel-shaped side members. To give these the necessary strength hey had to be of fairly heavy construction. This extra weight was felt to be unnecessary by the Peerless or strength of the frame side members by using a principle familiar to bridge design, the truss.

Strength, Etc.

Now that the motor car has been made thoroughly practical for every business use, automotive engineers are concerned in making many refinements in design and construction. The Peerless car is particularly noteworthy in this respect. Their engineers have worked tirelessly to get the proper weight distribution and balance of materials with greater strength and lightness. They have borrowed from all engineering principles to accomplish their purpose. A notable feature in the construction of the chassis is its bridge design. There is no new principles apply, those of great strength and flexibility, they are using the same bracing. Formerly the frame depended for its rigidity upon deep Agency For Harrisburg and Vicinity.

J. S. Sible, Jr., takes over agency by the motion care when in action is subjected by a company, is now being the plow Company, is now being the rest specific by coarse crystallization and the same is severy likely to cause crystallization and the same is the plow to care the plow Company, is now being the plow to care the plow to care the plow Company, is now being the plow to care the plow to the plow to care the plow to care the plow to care the plow to the plow to care the plow the plow to care the plow the plow to care the plow to care

STERLING TIRES

ARE GUARANTEED

5000 MILES plus FREE REPAIRS

KEYSTONE SALES CO.

DUPLEX 4-WHEEL DRIVE TRUCKS

The Monotony of Unusual Performance

cult to negotiate?

Summarized, the conditions were:

The 3 1/2-ton Duplex made it!

11th YEAR

To Duplex 4-Wheel Drive Trucks, the unusual is the commonplace! Breaking records has become a matter of course.

To us, Duplex performance is nothing to wonder at; it is expected—planned, and predetermined. This is why we rarely cite definite cases of Duplex achievement, such as the following:

ment, such as the following:

Between Edgewater and Paterson, N. J., is the famous—or infamous—Fort Lee
hill. It's a mile long and has grades up to 17 per cent. Doesn't sound diffi-

No! But the bottom abounds in deep chuck holes; the middle is a mass of soft a saphalt; the top section is rough cobblestones. As good measure, there's a hair pin turn on the last lap.

Still, it's negotiable—for an automobile or a lightly loaded truck. But the Duplex

At Edgewater they gave the Duplex eight thousand pounds of sugar to carry—..and another six thousand (loaded on a trailer) to haul. All told, the load totaled seven tons.

A stiff grade; bad road surface; difficult turn where the grade was steepest; seven tons on truck and trailer; new, stiff engine.

Made it in twelve minutes. Made it without difficulty, although in places the soft asphalt was two inches deep.

Then it completed its 50-mile run on a total gasoline consumption of seven gallons, and at a cost of four cents per ton mile.

To us this performance is not particularly startling; to us such accomplishment

is perfectly natural. But here are quotations from truck users—who keep careful tab on all trucks:

"Seven miles to the gallon with four tons on truck, and pulling a trailer carrying three tons is indeed a marvelous performance."

"It does not seem possible that any truck . . . could obtain such remarkable

"In all my records, which cover the operation of 1,400 different trucks, I can find nothing to compare with it."

The Fort Lee hill performance was unusual as a motor truck achievement, and not unusual as a Duplex accomplishment, simply because such ability is built into every Duplex truck. Exclusive principles—correct designing—careful construction—and ten years spent in doing it—help us produce a truck that is so

COMES TO CITY

Agency For Harrisburg

Custom

Made

Every Sterling tire

is custom made. Its

sturdy construction

and extra heavy car-

cass is an added rea-

son for buying a Sterling. Mileage and

service are the main

essentials of the Sterl-

ing tire. Let us dem-

onstrate this fact to

Both Phones

J. S. Sible, Jr., Takes Over Big Exhibition to Be Held in September of This

dermans last year.

Tanks are only one phase of tracor development, which will be
traphically shown by the tractor ex-

raphically shown by the tractor exibits.

American tractors are doing heroic service in France to-day, not only astanks," but in farming—plowing, narrowing, sowing, harvesting and ransporting crops back of the fight-ng lines.

The war has forced American farmers also to adopt the tractor years arrived under ordinary progress. First, ractor development perfected the ractor which four years ago was little more than an experiment. Next, he crying demands for increased production and conservation of manower, made it profitable for farmers o buy tractors.

duction and conservation of manpower made it profitable for farmers
wer made it profitable for farmers
This year the tractors manufacturers cannot begin to produce these
wonder workers fast enough. In the
Middle Western States where the
farmers are always progressive, the
demand for tractors is growing by
leaps and bounds. Thousands of
farmers will order tractors for spring,
113 delivery, but first they will visit
the Automotive and Accessory exposition to select the tractor best suited to their needs. This is determined
by size of farm, wind and condition of
size of farm, wind and condition of
pictry of operation.
Farms where six horses eat up
11.000 worth of feed each year can
now buy a two-plow tractor for little
more than one year's feed bill. With
the allies and the United States government buying up every sound
horse for sale, the replacement of
horses is desirable not only from the
standpoint of econômy in "upkeep."
but from patriotic necessity.
That the ten states of Illinois, Misseuri, Kentucky, Indiana, Nebraska,
Ohio, Michigan, Wisconsin, Minnesota and Iowa alone have half a million tractor prospects proves the importance of the exposition in September, where the farmer will see and
compare all the leading tractors.
The accessory end of the exposition
will be no less important because
since it has become a sign of service
to make the old car do more than was
expected of it, accessory manufacturers have concentrated all their efforts
to putting out essentials that will ad
years to the life of used cars and
take many dollars off their upkeep.
Taken from every standpoint the

charges from every standpoint the great automotive exposition over the waters of Lake Michigan will be one of the most vital and far-reaching human interest demonstrations ever held in all of this broad land.

Gear Ratio Important to Good Performance

Among more or less technical motor car terms, the rear axle gear ratio is probably as puzzling and meaningless as any other to the average car owner or layman. It applies to the number of teeth in the rear axie gears which transmit the engine's power to the driving wheels. In other words, it governs the relative speed of the engine and the rear wheels, as that relation pertains to maximum and minimum car speed, gestaway and pulling ability.

tive speed of the engine and the rear wheels, as that relation pertains to maximum and minimum car speed, getaway and pulling ability. The Cadillac Motor Car Company recently advised its dealers that one of the specifications which should receive special attention in car orders is the gear ratio, pointing out that the character of the country in which the car will be driven, or the work to be done, should guide the selection of the gear ratio.

A gear ratio of ofur-and-one-half-to-one, for example, meafs that the engine crankshaft makes four and a half revolutions while the rear wheels make one revolution. It is not difficult to understand that a car so equipped will have a faster getaway and be more powerful in sand and on hills, in high gear, than a car with a three-and-a-half-to-one ratio. The latter car would have a greater maximum speed than the former because when the engine is at maximum speed the rear wheels would be making a greater number of revolutions per minute. On the other hand, it would be necessary to shift to a lower transmission gear earlier, with such a car, than with a four-and-a-half-to-one ratio. This is because the gasoline engine depends on its speed for its power—it generates greater power at the higher speeds.

The importance of quick getaway in a car used a great deal in city traffic, or pulling ability on high gear in rough and hilly country, almost dictates a lower gear ratio. The safest course, for the average owner looking for good all-around performance rather than mere speed, would be the lower ratio.

all-around performance rather than mere speed, would be the lower

A prominent physician at Flat-bush, N. Y., was the owner of an early motor car which at that time, he stated, saved him six hundred dollars in a year, as compared with the cost of two horses which he for-merly kept in his practice,

CHICAGO EXHIBIT NEW AUTO SUPPLY OF MOTOR CARS HOUSE IS OPENED

M. Brenner and Sons Motor Company Opens New Store at Third and Hamilton

"Absolutely perfect lubrication is an impossibility." says an eminent authority on lubrication. "If it were not, your car would have perpetual motion and it would run on till doomsday, once it got started." "Hence, so long as you cannot eliminate friction altogether, it behooves the motorist to use the lubrication that will reduce it to a minimum. The manufacturers of Dixon's Graphite Motor Lubricants claim almost perfect lubrication for their products. They are made of specially selected greases as the grease is used merely as a medium to carry the graphite. It is the graphite that does the business, as the grease is used merely as a medium to carry the graphite. The Dixon Company mines its own graphite at Ticonderoga, New York, and refines it for use as a lubricant. "Graphite forms a permanent

end refines it for use as a lubricant.

"Graphite forms a permanent film between the bearing surface, filling up the minute hollows and smoothing over the uneven places. It does not pack or lump, is permanent, and does not squeeze out. This is the sort of lubricant that reduces friction to a minimum."

The United States Army made their first experiments with ar-mored motor cars in the summer of 1899.

CtephenC Salient Six

Meets Every Requirement of the Motorist Beauty, Power, Speed, Idling Ability Acceleration

honorable reputation for business integrity through fifty-two years of earnest manufacthrough htty-two years of earnest manufac-turing endeavor—The Moline Plow Company—the Stephens Salient Six would never be put on the market an inferior article. It must and does meet the strict requirements of engi-neers of national reputation. It is an assured fact that the Stephens is a protected invest-ment. Aside from this all-important fact, the Stephens is a car that can accomplish every requirement of its owner, from climbing impossible hills to idling along a sunny boulevard. With its graceful lines and wonderful design, it gives an individual pride of ownership, a car to be proud of in any array of cars. Its motor is the celebrated overhead-valve design, with such added improvements that makes the Stephens motor stand out as one of the most efficient, economical and desirable machines of the day.



ENGINE—Stephens perfected over-head-valve engine, with 3½-inch bore by 4½-inch stroke, giving a piston displacement of 224 cubic inches and a brake h. p. of 57 at 2,600 r. p. m. Cylinders and upper half of crank case are cast en bloc. Head is removable with everhead valve. Valves are 1½ inches in diameter and have a lift of %-inch. Bocker arm construction is ball and socket type and is so accessible that engine does not have to be stopped to a construction is ball and socket type and is tappets. Cranton and the construction is ball and socket type and is tappets. Cranton additional construction is ball and socket type and is tappets. Cranton additional construction is a construction of the constru

DETAIL SPECIFICATIONS

system.

STARTING AND LIGHTING —
Deloo with Bendix drive on
starter.

BATTERY — Willard LBA 90
ampere storage battery.

CLUTCH — Borg & Beck dry
disc, requiring no lubrication;
practically attention proof. disc, requiring no lubrication; practically attention proof.
TRANSMISSION — Selective sliding type with three speeds forward and one reverse; nickel-steel gears double heat treated; drive shaft ball-bearing mounted; center control.
DidtvE — Hotchkiss principle with double universal joints; no cumbersome torsion tubes or radius rods.
Ababes to the state of the state o An 18-inch wheet with integer corrugations.

WHEELS—Wood artillery type
with 1%-inch spokes. Wire
wheels furnished on special orders at extra charge.

WHEELBASE—118 inches.

TREAD-56-inch standard.
TIRES-32x4 with all-weather tread on rear wheels.
RIMS - Kelsey quick detachable; the easiest to handle in carburetor. UPHOLSERY — Deep, s of t, French-piped Turkish upholstery, with genuine leather and curled hair. Cushions which ease the shock without rebound. TOP—One-man covering with "Never-leak" fabric; Collins patented side curtains, easy to handle. handle,
WINDSHIELD — Rain - vision
slanting type; ventilating.
HORN — Electric, with push
button on top of steering column.
SPEEDOMETER — VanSicklen
with drive from rear of transmission away from dust and

dirt.

TIRE PUMP — Kellog, driven from transmission, hose connection in flush plate on floor board; easy to reach, yet out of the way. board; easy to the way.

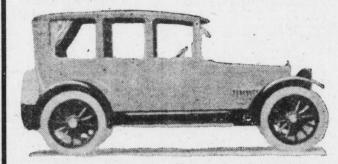
TIRE CARRIER—On rear with
extra demountable rim.
EQUIPMENT—Jack, full set of
tools, tire repair kit and trouble
lamp. Tool kit in left front
door. lamp. Tool kit in left front door. PAINTING — Touring car and roadster, Brewster green or black with fine gold striping and ivory wheels; 4-passenger, Saginaw red with natural wood wheels; touring sedan black.

IMMEDIATE DELIVERIES
WE WILL BE PLEASED TO TELL YOU ABOUT THIS REMARKABLE CAR AND DEMONSTRATE AT YOUR CONVENIENCE.

J. S. Sible, Jr.

THIRD AND CUMBERLAND STS. **BELL PHONE 1555W**

If Ever You Needed An Automobile---



ALL-YEAR CAR— Sedan top attached to Gibralter 5-passenger Staggered door body mounted on Hundred Point Six Chassis. It is one of the five superb Kissel Kar Models.

YOU NEED ONE TODAY!

The Most Serviceable And Economic Car For Every Day-Week-Month, Is The

'ALL YEAR' KISSEL KAR

Never before in the history of the country has any means of the automobile today. And one of the best known, most serviceable, and most economic machine is the KISSEL KAR. For every purpose in all seasons and all weather, the 'All-Year' Car is conceded America's best convertible motor. It is mounted on either the 'Hundred Point Six' chassis or Kissel's new 'Double Six' chassis. For power, speed, durability and service, the Kissel is the nearest approach to the ultimate in motor car preformance

KISSEL KAR TRUCKS

Never before has there been offered to the mercantile, industrial and manufacturing world such quality trucks'selling at prices that emphasize their unusual value as in the five new Kissel models All of these five models are equipped with the Kissel-built motor and other superior mechanical units including the perfected worm drive rear axle, superior front axle, etc., that insure efficient preformance at all times with low upkeep and high tire and gasoline

One of the most notable achievements of the Kissel truck is the 'All-Year' cab that protects the driver in all kinds of weather, winter and summer. This in itself is a big reason for the purchase of a Kissel Truck.



Note the 'ALL-YEAR CAR' as well as the sturdy construction of the illustration above. Protection for the driver is an assured fact with the KISSEL Truck.

Our New Automobile Accessory Store At Third and Hamilton Streets

is equipped with a complete stock of all the latest motor appliances on the market; tires, tubes, blowout patches, quick repairing outfits, cement, radiator repairing cement, vulcanizing outfits, jacks, pumps, wrenches, pliers, anti-skid chains, oils, greases, lamps, horns, lunch sets, dry batteries and the hundred and one necessary articles that will meet the requirements

We solicit your patronage and assure you promt and efficient service and full value for your money.

M. Brenner & Sons Motor Co.

C. C. HIGH Mgr. Accessory House. Third and Hamilton Sts.

HARRISBURG AUTOMOBILE CO., Distributors. DUPLEX TRUCK COMPANY - Lansing, Michigan

"Look for the Red Sentry"