CYCLE CAR TO BE ASSEMBLED HERE

Portland Will Have Factory Devoted to Latest Member of Auto Family.

PRICE IS FIXED AT \$395

Number of Prominent Business Men Organize Company to Build Motorette, Which Will Take Name From City.

Not to be behind other cities, even the Not to be behind other cities, even the great automobile-producing centers of the East, such as Detroit and Indianapolis, Portland is to have a factory of its own in the very near future devoted to the assembling of cyclecars. Los Angeles was quick to see the possibilities of the cyclecar and has already a factory started, and Portland will be the Second city on the coast and one of the very first in the states to commence manufacture of these light weight motorettes.

Under the title of the Portland Cycle-

Under the title of the Portland CycleCar company, a number of prominent
business men have formed a close corporation with Lewis I, Thompson as
president and C. J. McPherson as vicepresident to market a car which will
fell for \$335 f. g. b. Portland.

Mr. Thompson said yesterday that for
the past 18 months he has been working
on the best European lines to preduce
a cyclecar without the obvious defects
of some of them and with the best
points of the majority and that he had
now produced a model which has been
tried exhaustively and which he was
convinced would prove its worth.

Car Specifications Given.

Judging by the specifications the leading features of the car would seem to be twin cylinder. 10 horsepower motor, high clearance, planetary transmission, roomy, streamline body with tandem seating, chain drive from engine sprocket to transmission, thence by V belt to rear wheels. The wheelbase is 96 inches, the tread 40 and the weight 540 pounds. The car will be known as the "Portland" cyclecar. Though a site has not been purchased, the company has an option on a site at St. Johns, where the factory will go up just as goon as possible. The general offices are at 352 Corbert building.

The specifications of this cyclecar are Car Specifications Given.

size at 302 Corbeit building.

The specifications of this cyclecar are as follows:

Motor—Two-cylinder, two-cycle "" "type Motor—Two-cylinder, two-cycle "" type Motor—Two-cylinder, two-cycle "" type Servinders at at 45 degrees. Air could. Extra flanges to color the flanges of the color of the cycle to sell sleds and sleights in Summer, but the manufacturers continued making crankehaft, tight-fitting platen rings, atuming merankease, cill gauge level, circulating crankehaft, tight-fitting platen rings, atuming merankease, cill gauge level, circulating crankehaft, tight-fitting platen rings, atuming merankease, cill gauge level, circulating crankehaft, tight-fitting platen rings, atuming merankehaft, tight-fitting platen rings, atuming merangen to the color of the

SCHOOL HOUSE ALDER TREES TYPICAL PLAN OF ROAD

PLANS DRAWN BY ROAD EXPERT TO AID CHILDREN IN ROAD WORK

COPTRIGHTED BY.H.W.LIBBY

JACK RABBIT CAR BRANCH MAN AGER TELLS OF OUTPUT.

Apperson Plant Runs Throughout Year, Making Machines at Rate of 10 a Day, Says Curtis.

"There is no reason," says H. W. Cur-tis, the local branch manager of the Apperson "Jack Rabbit" cars, "why the automobile business cannot be conducted on the same basis as any other

legitimate business. "In years gone by, when the buggy specifications of this cyclecar are and wagon business was at its height, lows:

Tires—18x2% inch standard clincher tires of front and rear. Plain tread in front hain tread in rear. Gasoline Tank—In cowl of dash, contains of Mrs. Marion Bennett, of that city Emery was riding in the vicinity Tandem Scale for Two.

Femilers—All metal fenders cover wheels from spiach and are also fitted with metal liers.

Frank Emery, of San Francisco, Cal.

Frank Emery, of San Francisco, Cal.

When his motorcycle, recently saved the life of Mrs. Marion Bennett, of that city. Emery was riding in the vicinity of Mrs. Bennett, resulting from polscoling. Emery helped the stricken woman onto the front of his motorcycle and rushed with her to the hos-Seats two persons tandem, the rear pital.

FIG.L. ROAD 30 FT. WIDE. DITCH ROAD 20 FEET WIDE, HILLY. DITCH ON BOTTOM F14.3 ROAD 12 FEET WIDE, STEEP HILL ROAD 12 FEET WIDE ' TO BE USED ONLY IN SOLID ROCK HILLSIDE. PLATE 2. COPYRIGHTED BY H.W. LIBBY.

TYPICAL CROSS SECTIONS.

PACIFIC MOTORS COMPANY RE-CRIVES LATEST CHANDLER.

Recently Arrived and Popular-Priced Automobile Answers to the Entire Satisfaction of the Agents.

six-cylinder cars in Portland is the Chandler Six, the agency for which in this state is held by the Pacific Motors and experimentation has been done away with. There is not in its manufacture a single novel, untried or experimental feature. this state is held by the Pacific Motors
Company, headed by H. S. Colter, The
car reached here a week ago and during the past seven days Mr. Colter has
had this car out on all possible occa-

plan. On this scale a section of the severest possible tests, all of which it has answered to the complete satisfaction of those who have ridden in it.

There are good reasons a plenty why have the plan 15 inches long and 10 inches wide. There are good reasons a pienty way the Chandler should be a good performer and the first and far away the most essential reason is that it is the product of men who know: it is built by a company composed of men with years of experience in designing, manyears of experience in designing, manufacturing and selling cars and men whose experience has been connected right along with high-priced six-cylinder cars. They are all working at a nominal salary, relying on the dividends to bring them wealth

Cost Declared Not High.

Speaking of the car, Mr. Colter, af-ter returning from a trip over the Heights the other day, said: "The Chandler lightweight six at \$1785 is not only a six you can afford to buy, but it is a six you can afford to run. The statement that six-cylinder cars are costly and necessarily extrava-sant in upkeep and fuel expense is ab-solutely misleading and untrue. It is true that many sixes consume gasoline extravagantly, not because they are sixes, but because they are designed by engineers lacking knowledge of proper six-cylinder design. "The Chandler lightweight six will

The Chandler lightweight six will run 16 miles or more per gallon of gasoline in touring over average country roads. How many fours of the same size and actual power and ability can do this? And this fact repeatedly has been proven by dealers from one end of the country to the other. The remarkable fuel economy of the Chandler lightweight six is one of the facts which I am prepared to prove.

dier lightweight six is one of the facts which I am prepared to prove.

"The efficient oiling system of the Chandler lightweight six is one of its many remarkable features. Chandler cars lose no oil through waste. Every drop of oil is used in lubrication and one gallon is sufficient for from 400 to 700 miles of travel. As there is no oil wasted, Chandler cars never smoke, no matter how much oil is carried in the oiling system.

"Consider a roomy, luxurious six-cylinder car, with power to surmount all hills, strong, sturdy, swift and speedy, weighing less than 3000 pounds fully equipped honest weight—run-ning is miles per gallon of gasoline, hundreds of miles with one gallon of oil and many extra hundreds of miles on one set of tires, and it can be un-derstood why the Chandler lightweight six is not only a six you can afford to buy, but a six you can afford to run.

Minister Rides Motorcycle,

There have been hosts of courtships, clopements and benegments in which the motorcycle figural largely, And in England even a motorcycle wedding was recently solumnized. But in Hamilton, O., the idwers neither seuried, sloped nor spent their honeymeens liton, O., the lovers neither courted, sloped nor spent their honeymoons wheel. The minister was the one who rode the motorcycle. Three couples in different parts of the city were to be married the same evening. The seremanics were in he performed at practically the same hour. And the Rev. G. W. Phillips had been engaged to officials in much case. Mounted on his metercycle, Hev. Phillips vielfed the three houses, completing all three respices within helf an hour.

ROAD PRIMER IS OUT

Lane County Surveyor Gives Rules for Highway Work.

BOOK FOR SCHOOL PUPILS

Make Thoroughfare Construction Part of Education, Details of Bullding Are Explained.

In connection with the plan of Miss Goldle Van Bibber to teach to the children of School District No. 5, of Lane County, the elementary principles of road building, as outlined some weeks ago in The Oregonian, Hollis W. Libby Surveyor of Lane County, has prepared

a primer for the children to use.
It will be remembered that Miss Vat Bibber's plan, approved by the County Court and commended and commented on all over the Coast, is to have the front of or adjacent to the schoolhouse In this way they will get practical

emonstration of proper methods.

In the first chapter of the primer is map and a scheme for giving in a reort. First of all, this will leach the

a map and a scheme for giving in a report. First of all, this will leach the children simple map-making as it concerns roads; and, secondly, it will inform the County Court as to the nature of the road on which the children are working.

The children will work necessarily with light tools, but it is expected that from their work, with hoes and shovels and carrying surfacing material, perhaps in baskets, they will learn proper methods which will be used in actual road construction by use of graders, drags, wagons and other means of transporting material. ransporting material.

Experts Not Available.

Lane County, by reason of the large number of miles of roads which it is compelled to build and maintain, and by reason of the limited amount of money which can be expended for this purpose, is necessarily required to rely in the building and maintenance of a great part of such roads on men who purpose, is hecessarily required to bely in the building and maintenance of a great part of such roads on men who are not professional road-builders. It is therefore particularly important that the people generally understand how roads should be constructed and how they should be maintained. The work which this primer is intended to assist is a part of the general plan of this county to teach the people of the county as much as possible about roads. In beginning this educational work with the school children, it is felt that particularly good results will be obtained, because what interests the children is sure to interest and inform their parents at the present time, and the knowledge which the children get now will serve them well in the future when they become men and women and have an active part in the road problem. The Instructions contained in the

The instructions contained in the primer are as follows:
(Copyrighted by H. W. Libby.)—Before beginning work on any piece of road it is well to have a plan showing as nearly as one can everything within the road limits, as well as the more important features close to the road, such as buildings, streams and hills.

A report or description also should be written describing those things that are hard to place on a map, such as the condition of the road and the character of the ground.

Scale Is Suggested.

Scale is Suggested.

If the section of road to be worked is not more than 300 feet in length, the plan may be drawn on a scale of, say, 20 feet to the inch, which means that for every 26 feet measured on the plan, and for it feet on the ground one-half inch on the plan, and for five feet on the ground one-fourth inch on the plan. On this scale a section of road 200 feet long and 60 feet wide would be on the plan is inches long and three inches wide. The whole sheet for this length of road and scale should be 20 inches wide. The whole sheet for this length of road and scale should be 20 inches long and 10 inches wide.

To locate any object in the road so that it can be marked in the plan, measure from the stake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road, then measure from the sake at the corner of the road and its feet from the sake at the corner of the road and the township, section and school district in which it lies.

Second The character of the road should be sated. It would be saked ill the road road the saked in the plan should also have a title the road should say:

Sixth. All that is known about the accorner of the road

measure from the stake at the corner of the road, then measure from the side of the road to the object. It may be easier sometimes to measure down the center of the road and then out to the right or left to the objects to be located. To locate the traveled way, measure along the road to points opposite every bend and then out to the

DON'T BLAME US If You Forget the Place to **Buy Good Christmas Presents**

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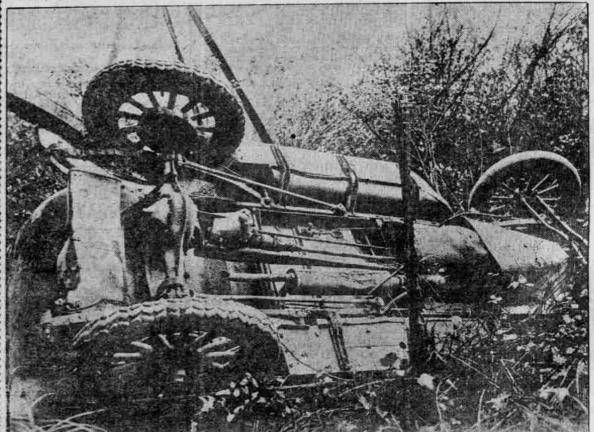
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AUTOMOBILE AND SHOP SUPPLIES

TOOLS Brake-Lining MOTORCYCLES AND ACCESSORIES

Preer Tool and Supply Co.

STRENGTH OF MODERN STEEL BODY WORK PREVENTS SERIOUS INJURY IN ACCIDENT



OVERTURNED AUTO, IN WHICH PASSENGERS ESCAPED SCATHLESS.

OVERTURNED AUTO, IN WHICH PASSENGERS ESCAPED SCATHLESS.

The above photograph of what is apparently a bad automobile wrock offers conclusive evidence of the strength of present-day steel automobile bodies. The overturned car shown is a Studebaker "35," belonging to J. W. Gallagher, of Everett, Wash., which has been in operation as an automobile stage between Everett and Granite Falls, Wash.

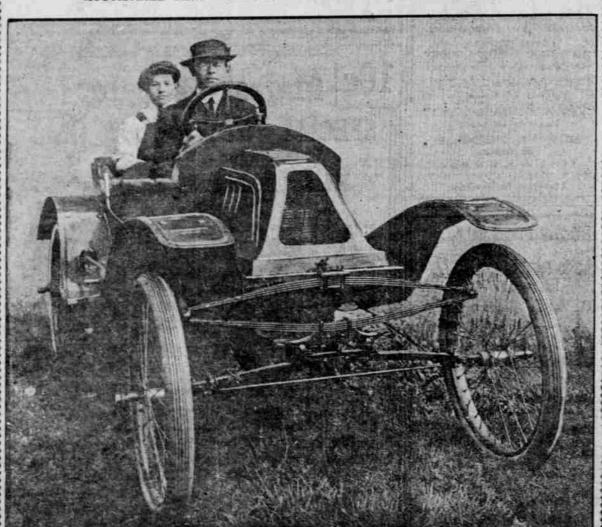
Recently, when en route with a load of seven passengers, Mr. Gallagher lost control of the car while running at high speed. It left the road, dropped 35 feet into a guich by the roadside, turning completely over in the fall and landed upside down.

It all happened so quickly that none of the seven passengers could jump, but to a man they obeyed instinctively the natural impulse to "duck" and crouch as low as possible in their seats. The car landed squarely bottom side up. The glass in the windshield was broken to atoms, many radiator tubes were perforated, but the strong steel body held intact, and the seven passengers escaped without a scratch and with nothing as a remembrance of the accident, except the severe shock.

The car was hoisted to the roadway, set to cights, found to be in as good running order as ever before, beyond the broken windshield, radiator and damaged top.

The survivors of the accident, while not recommending similar experience to motorists, are loud in their praise of the strength of chassis and hedy construction of the modern automobile which can withstand so severe a test without extensive damage or injury.

AUTOMOBILE THAT WILL BE ASSEMBLED AT FACTORY IN OREGON



THE "PORTLAND" CYCLE CAR.