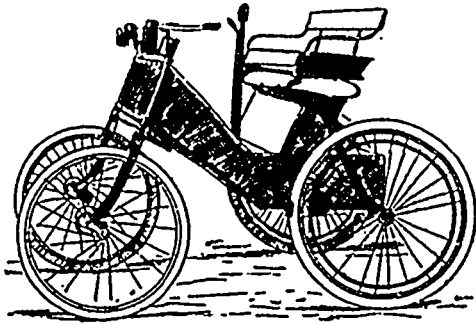


This machine, it is claimed by the inventor, is especially applicable to travel over Western States roads; it is propelled by a gas engine of six horse-power; the machinery is well raised above the ground; it is claimed that it will travel from four miles per hour to any speed the operator desires; any person of ordinary intelligence can run it; its total weight is 900 pounds



MAX HERTEL'S MOTO-CYCLO.

Two German motors are entered, one of which gained a prize at the Paris-Bordeaux competition. It is claimed that it can travel on fair roads at 30 miles per hour.

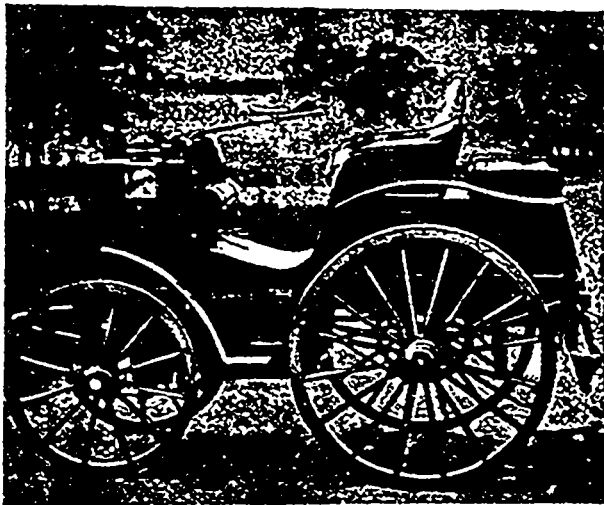
Another novelty in motors is entered by Hill & Cummings, of Chicago; the engine has developed five horse-power with all connecting mechanism and gearing to wheels, the total weight is 175 pounds; it is built of aluminum bronze.

There are also a number of tricycle motors entered of three-quarter horse-power, weight from 90 to 110 pounds.

It is proposed in the United States to form an organization of a large number of people interested in the coming revolution in transport, etc., and which will have as its object the furtherance of all details connected with this broad subject, and to hold stated meetings, when papers can be read and discussion followed as to the respective merits of all points in question. Such an organization is now needed, and upon its formation would meet with the hearty co-operation of the friends of good roads, the newspapers, and the public at large. The horseless wagons for merchants' delivery and general purposes have already made their appearance in New York, Boston and Philadelphia, and are highly spoken of.

A remarkably handsome horseless carriage appeared in Chicago on the 29th, from Decatur, Ill., built by the Mueller Manufacturing Company. It was operated by Mr. Mueller and his two sons. The streets were lined with thousands of people as it sped along through Michigan Boulevard to Lincoln Park.

Another by Hill & Cummings has also arrived. The engine is built of aluminum bronze, is very light, but powerful. It is noiseless, odorless and canopied, has seats for four persons. This small motor, it is stated, will easily develop five horse power.



MOTO-CYCLO FOR COUNTRY ROADS.

Another machine has arrived with seating capacity for two, built by Max Hertel. It runs with a double cylinder gasoline motor; it turns completely round in a circle of ten feet. If left to itself it will always run in a straight course. The entire weight of this machine, including fuel and water, is only 220 lbs.

CHANGE IN THE RACE-ARRANGEMENTS.

In accordance with the wishes of a large number of manufacturers and inventors who could not complete their machines, and the desire of others who wanted to go over the route and modify their machines to the requirements of the road, the judges put off

the test until November 28th. It was thought this delay would allow sufficient time to complete the motors. It was, however, thought advisable, as Chicago was crowded with people from all parts of the Union and Canada to see the race, that a test of some kind should take place. Six vehicles offered to run for a purse of \$500. These vehicles passed in line through the city, and were admired by countless thousands. When the time for the start arrived the Mueller's Benz carriage was the first to appear, with four passengers. It is an imported German one. The next to get in line was the carriage of Mr. Duryea. They had no competitors. Flanked on both sides by many hundreds of bicycles and other conveyances, and a dense mass of people, they sped on their way. The Mueller machine ran the whole distance of 94 miles without accident in 8 hours and 44 minutes, and the whole cost of the oil, fuel and lubricatory oil for the trip was not more than one dollar. This carriage was admired by all those capable of judging of its merits. The Duryea vehicle did not complete the race. It broke its chain, which detained it 48 minutes, after which, in endeavoring to get out of the way of a farmer's wagon, it was upset in a ditch, breaking one of its wheels. This wagon was built at Springfield, Mass., by a company formed to build it. Great expectations centre on it. The accident referred to might occur to any one. All along the 94 miles the route was crowded by people. After going over the whole course the headlight of the Benz motor-cycle appeared at 20 minutes to 7 p.m., and at 6.43 it stopped in front of the monument. The judges then made their examination and awarded it the \$500 purse.

During the time the carriages were racing others were speeding in Chicago and the parks, not accepting the offer to run that day. It is confidently expected that from 50 to 60 vehicles out of about 90 entered will run in the great race on the 28th of November.

A Moto-cycle Association has been formed in Chicago of various people from all parts of the United States in the interest of the development of the horseless carriage. It is also stated that moto-cycle liveries will be in existence in Chicago and elsewhere next spring.

Industrial Notes.

G. PREVAT will erect a grist mill at Murillo, Ont.

THE new Jewish Synagogue to be built at Toronto will cost \$25,000.

T. GREENWAY'S mill at Crystal City, Man., is to be enlarged and improved.

A new fire station to cost \$45,000 will probably be built at Ottawa in a short time.

THE Union Brewing Co., of Nanaimo, B.C., will erect a brewery at Union, B.C.

PLANS are being prepared for a new Anglican church at Danville, Que., to cost \$6,000.

BRAULT'S mill, at Brault's Mill, near Arthabaska, Que., was destroyed by fire a few days ago.

HINTON & PENNEY'S Victoria Iron Works, at Victoria, B.C., have been purchased by E. Baines & Co.

THE city council of Guelph have decided to employ an engineer to report on the contemplated sewage system.

JAS. HERRON, Herron's Mills, Lanark township, Ont., has leased the Perth, Ont., grist mill from Hon. John Haggart.

THE Hamilton Bridge Company are working on the addition to the Victoria bridge, London, in connection with the street railway.

THE Maritime Nail Co., St. John, N.B., are applying for incorporation, with a capital stock of \$850,000, to manufacture nails, etc.

THE Dominion Cotton Mill Co.'s mill at Kingston, Ont., was partially destroyed by an electric storm last month. Loss about \$80,000.

THE Bicycle Accident Repair Company, Toronto, is incorporated, with a capital stock of \$10,000, to manufacture and repair bicycles.

A CARRIAGE factory with \$30,000 capital is to be started at Truro, N.S. Mr. Bunker, from Ontario, will put \$4,000 into the enterprise.

WALKER & SONS want the Essex County Council to locate the proposed new county building in Walkerville, Ont., and have offered a free site of seven and one-half acres, worth \$7,000, free gas and water, and \$35,000 in cash.