

ignorance; that is all. Many factors have to be taken into consideration when attempting to calculate the speed of a car. Given the actual weight of a car and the actual horse power delivered to the rear wheels, the time required to cover a given distance can be mathematically determined. But economical transmission of power, perfection of design and construction of engine give some cars advantages over others in the matter of speed.

Dr. Raynor, one-time President of the Auckland Automobile Association, leaves for California immediately. At the sale of his effects on Monday, the Roundabout car was disposed of for £70. There are few cars in Auckland which have done so much work, and done it so well.

Owing to the steadily-increasing number of motor omnibuses in London, the cab-drivers there are finding their occupation slipping away, and in order to mend matters and move with the times, a syndicate, under the auspices of London Cabmen's Union, has been formed, with a capital of £20,000, with a view of instituting a motor omnibus service. In order that the drivers may acquire practical knowledge of the vehicle, a school for motor tuition has been established, and already one thousand of the cabmen are making a study of it.

At one of the recent motor shows in London the Daimler people booked no less than fifty-five orders for cars, including one from H.R.H. the Prince of Wales. His Highness said when ordering, "They have never given me any trouble." The aggregate value of the orders received was over £40,000.

Some motorists in the Old Country who use steam cars are of the opinion that little or no credit is given this make of motor, even should it do something out of the ordinary, while the petrol engine is boomed in every instance. They think this must be due to some feeling against the steamer. In this connection it may be of interest to know that in some of the motor trials on the Daytona Beach, Florida, a Stanley steam car beat a 90-h.p. Napier on two occasions. There was also a special race set apart for steam cars, in which the great majority performed most creditably.

The "Express" describes the electric "trap" for unwary motorists, which

Major Lang, chief constable of Haywards Heath district, invented, and Lord Kelvin's firm have just manufactured. The mechanism is enclosed in a small box, with holes in the top, which permit the attachment of two water-tight cables. When bent on timing speed, the police measure two furlongs. Three men are necessary for the working of the apparatus. A is stationed behind a hedge at the beginning of one furlong, and holds one end of the cable. B is in the middle with the mechanism, which includes a non-magnetic chrono-meter; and C is at the other end. When A hears a motor-car coming he signals to B by pressing a button, which rings a bell. B then places his finger on a button which connects A with the watch. When the front wheels of the car are on a mark opposite A he presses his button again, and this starts B's watch. When the car gets to B he presses another button, and the watch is instantly stopped. A little computation can at once tell B whether the car is being driven beyond the regulation speed, and, if this is the case, he presses another button which rings C's buzzer. This is the cue for which C, Constable Waghorn, waits. He darts from his hiding-place, and in his loudest tones calls on the motorist to stand and deliver his name and address. Up to the present the electric footpad has been the bane of 138 too eager motorists, and in one week £130 in fines was paid.

A motor body in New York, the Atlantic Speedway Association, has a big project in the shape of a speed track at Barnegat Bay, near New York. Over 2000 acres of land have been bought, situated on a large plateau in the midst of a huge pine forest, and here a heart-shaped motor track will be laid out, five miles in circumference. There will be two straightaway runs along each side of a mile, and within this large track will be constructed a smaller one, two miles in circumference, circular in shape. The width of the tracks will be forty yards. A huge grandstand, club-house, inn, garages, and repair shops, etc., will also be constructed, while, in view of the rapid advance into popular use of the motor-boat, there will be a racecourse marked out in the bay, as well as a boat-shed and club-house erected.

A French motorist whose tyre burst with a great noise in St. Petersburg recently was set upon by Cossacks, roughly used, and accused of being a Socialist bomb-thrower. Only for the intervention of a police inspector who

knew something of burst tyres, the unfortunate foreigner would have been sent to prison.

In London's new fire automobile, the steam water-tube boiler, situated between the rear wheels, is heated by a petroleum burner of new design, in which the paraffin is sprayed into the furnace together with steam. This gives a very fierce fire. In front of the boiler is the engine, consisting of a pair of inverted cylinder driving two direct and double-acting pumps. The same motor takes the vehicle to the fire, and on arrival pumps the water. The engine carries enough petroleum for a 40-mile journey.

I have lately been examining (writes "Demon" in the "Otago Witness") most of the engine pulleys in which round belts are running on the local motor cycles, and in nearly every case very decided shoulders were worn on the belt, and these riders ask their belts to hold on steep hills, and when the belt slips they keep on tightening it, all the time putting a very effective brake on the engine.

## BOWLING.

(By the "Skip.")

In a ten-rink match on Saturday, between Ponsonby and Rocky Nook, the former won very easily on the aggregate of 50 points. Ponsonby won on seven rinks, while Rocky Nook was successful on but three.

Devonport just scraped home from Carlton on the former's ground with a score of 121 to 119. There was a very keen fight right through, and the issue remained in doubt right up to the time the last bowl was delivered.

Every rink was engaged at Remuera, indeed, several would-be players had to go without a game. An Auckland team skipped by Ledingham beat a four with D. E. Clerk at the helm by 25 to 17.

At Remuera, Mr D. L. Murdoch presented Mr A. Hegman with the Silver Challenge Cup won by the latter this season; both the donor and the recipient being greeted with hearty cheers.

The Wholesale and Retail Drapery Establishments played a match on the Mount Eden green on Saturday, the Wholesale men winning on three rinks to one and on the aggregate by 23 points. The worst defeat was in the match between Mercer and Tutt, the former winning by 35 to 9. Gilmour did well for the Retail men, his four winning by 28 to 12.

The process of remaking the big Grafton green is proceeding apace. The green has been ploughed up, drains put in, and nearly a foot of scoria laid down. Good soil has been procured from Mt. Eden, and the ground properly made up. It is expected that when ready for play the Grafton green will be one of the best in the district.

There is no outdoor pastime that has "caught on" in this State so rapidly as bowls (says the Sydney "Mail"). Its votaries are numbered by thousands, and include young men and maidens, the middle-aged, and those in the sere and yellow of life. Numerous clubs have been formed in the various suburbs and one in the city. Wherever bowlers establish themselves handsome pavilions are built, neat enclosures are erected, and pretty garden plots are planted. The level bowling arenas are pleasing to the eye, and are tended with increasing care. By an act of civic grace bowlers have been permitted to construct playing greens on a portion of certain public parks, to which the public has at all times been permitted free access. Visitors to Victoria Park, Ashfield Park, and Cook Park will have noticed how the bowling enclosures there have improved and beautified the surroundings. On Saturday afternoons and holidays the public shows its appreciation of bowling by attending, free of hindrance, interclub and interstate matches.

In the interstate matches the Victorians started badly, losing the first test by 22. Nothing daunted, however, they played up pluckily at Ashfield, and scored a win by 9 points. They were in fine form, and deservedly won the final at Chatswood by 14 points. While, naturally, New South Welshmen like to win, every true sportsman will congratulate the "dark blues" on their success. It is always difficult to get the best men to leave home, and the local representatives are supposed to be the best available.

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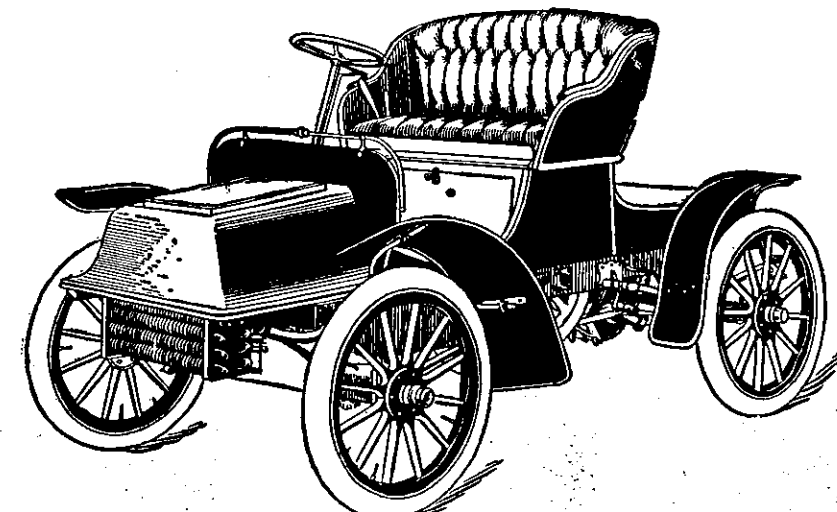
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