

DR. COARD'S MOTOR TRACTOR

Farming Operations Revolutionized by Regina Professor—Will do Work of Forty Horses

Slowly moves the march of ages. Slowly grows the forest king. Slowly to perfection cometh Every great and glorious thing

There has been as great an evolution in the mechanical world of recent years as there has been in the realms of palaeontology from prehistoric times, but with this remarkable difference, that whereas in palaeontology the changes have been slow though always progressive, during the Victorian-Edwardian period mechanical progress and development have kept pace with the requirements of men and of nations. In nature's evolutions man has had to wait developments; in the modern application of mechanical science to domestic economy the developments have awaited the magis touch of man's ingenuity. No man has been found wanting in meeting the various exigencies of modern progress, thanks to the inauguration and spread of a system of technical education following upon the school age, first established in Germany, and, in the sixties, adopted throughout the industrial centres of Great Britain. Why does not Canada adopt a similar course?

The application of steam as a motor is comparatively a modern discovery, yet what a powerful ally it was to the development of international peace and prosperity, more than doubly lengthening every working day, and decreasing distances not only between town and country, but between the countries on the globe's surface. The subject of electricity to human requirements was the next step in advance as evidenced in the insular telegraph, extended into the trans-Atlantic cable, and now bringing all the world into touch as if by magic. The telephone was a wonderful adaptation of the mastery of mind over matter, and the electric light a no less potent force to universal illumination. And now electricity whenever available has superseded steam as a motive power. But this marvellous power is not so self-contained that it is itself sufficient to become self-generated; it requires other power to energise its latent forces. But there is one apparently inexhaustive force concentrating enormous energy requiring only a slight spark to set it to work, and this spark is never absent when this fluid is ignited under certain well known conditions—we refer to the common coal oil of commerce. In the utilisation of coal oil as a motive power, instead of electricity, it is necessary to adapt machinery to the requirements of the oil. This has been successfully accomplished in the interests of the great agricultural community of our Northwest by the "Universal" Motor Tractor which Dr. Coard, president of the Northwestern Agricultural College, Regina, has constructed to do everything upon the farm that has hitherto been done by horses, oxen, mules, or steam, or either or all combined. This motor, he claims, will do the work daily of forty oxen, and that all the year round if required. As originally constructed, this motor and alterations to render it all that could be desired for western Canada otherwise it would have been put in to service last year. Dr. Coard's practical knowledge of prairie farming enabled him to offer the manufacturing a number of suggested alterations, and these having been completed, the first Motor Tractor will reach Regina this spring. Last year in open competition with the world's new implements this motor took the highest award of the Royal Agricultural Society of England, and during the autumn carried off seven gold and silver medals.

The motor tractor as supplied consists of a complete tractor capable of being attached to any existing agricultural implement, lorry, wagon, buggy, or other vehicle. It is supplied with a lorry to carry two

tons, and to this it will trail another lorry or wagon, or anything else in vehicle shape, aggregating as much as eight tons altogether. When the lorry body is removed provision is made at the end of the motor frame for attaching in a few minutes implements and wagons of all kinds—ploughs, harrows, seeders, drills, rollers, reapers and binders, cultivators or anything else. In front of the motor a pulley is attached for driving fixed machinery of all kinds by means of a belt. The motor has forward or reverse motions on three speeds, is mounted on three wheels, all of which propel, and it is fitted with powerful foot and hand brakes. The motor cannot slip under any conditions, and it runs as well over uneven as on level ground. It is fifty horse power and its fuel is common coal oil. It will carry in its lorry two tons and haul another four tons eight miles an hour at a cost for fuel of 96 cents. It will plow an acre of virgin prairie, however hard, at a cost of one dollar; it will haul three cutters and binders operating at a cost of 27 cents per acre. The motor will carry, haul, plough, reap, bind, cultivate, drive a threshing machine, cut or grind feed, saw wood, haul grain, water, wood, coals, road wagons, and generate electric light. In military manoeuvring it will haul cannon, ammunition, and all other supplies for an army service corps.

Dr. Coard says that if the necessary conveniences can be arranged by local committees, it will present a novel exhibit at the Canadian agricultural exhibitions this year. Each day the motor will cut, bind, and thresh one acre of wheat, convey the grain to the mill, return to the exhibition grounds with the flour, then return to the cleared acre, plough it, prepare the seed bed and sow another acre for another crop, meanwhile the flour will be converted into bread, and on the return of the motor from seeding the bread will be distributed to the public, all this being accomplished during one afternoon, and the motor being the only motive power utilised.

Dr. Coard states that while the motor is the strongest possible in material it is neat and "finished" in every way, and whilst every part requires oiling or other attention, it is so constructed that there is nothing to corrode, collect dust or mud or get out of order. It can neither slip, topple over, nor twist; and it is so simply handled that a child can both drive and control it. Only one man is required for the Motor, lorry and trailer, but in farming operations it can be supplemented by one help to each extra implement.

By horse cultivation it will cost to prepare 160 acres seeding, exclusive of horses' keep and wages of teamsters, \$1,260; by steam cultivation \$1,024; by the Universal Motor only \$680 including wear, and tear, and depreciation.

Horses at the best are only working about 151 days in each year, and when not working are eating their heads off. The Motor can be used every day, but when not in use does not require feed or veterinary fees. Proper lubrication when at work, and a dry shed when not in use are its only necessities. The oil is lighted by an electric spark. The spark being carried in a box, always ready to start work. Every bearing, excepting in the engine, is a roller bearing, having long steel rollers revolving in a steel bush, and finished with dust-proof caps or collars. Every vital part of the motor is made of steel. For transportation by water or railway the Motor and Lorry are hoisted up in a case, and together weigh about three and a quarter tons. The price of the motor and lorry have been fixed to meet western Canadian agricultural needs.

Lord Strathcona, the Canadian high commissioner in England, has taken an active interest in its adoption, and is recommending its adoption in the Dominion.

ADDITIONAL LOCALS

J. B. Hawkes of Balgonie was in the city yesterday.

Miss Mary Clarke of Prince Albert is in the city the guest of Mr. John A. Kerr.

The Irishmen of the city will meet in the Clayton Hotel this evening to organise a national society.

The Canadian Northern will take over the express business of the north line on the 18th inst.

Mrs. D. Hyndman and the Misses Hyndman of Vancouver are guests at the Lansdowne.

P. McAra, Jr. has sold three lots in block 227 on Dewdney street to the Presbyterians for a north and south church site. It is anticipated that a building will be erected on this property at an early date.

Mayor Smith, as chairman of the municipal commission and J. Kelso Hunter as clerk, will go to Milestone tomorrow to arbitrate in a dispute between the town and the townsite trustees.

E. L. Elwood of Mooseomin was in the city Thursday last.

The Saskatoon Capital which unfortunately was burned out this winter, has now caught its feet again, and is out as an evening paper creditable to the management and to the central city of Saskatchewan.

F. W. Evetts an old time rancher of the Qu'Appelle Valley was in the city for a few days last week en route to his present home at Kelowna, B. C. He had been to the old country for the winter. While here he renewed many acquaintances.

Members of the government have promised to go to Arcola to open the new town hall at that place. It is anticipated that they will take advantage of the occasion to announce that Arcola has been chosen as the seat of the judicial district of Cammington.

The plan of seats for the St. Patrick's concert to be given under the auspices of St. Mary's Ladies Aid in the city hall next Monday evening is now open at the Canada Drug and Book Co. Those intending to be present are advised to book early. The best local talent will be on the program at this concert.

S. A. Hamilton of Radisson has been in the city for several days. He interviewed the government as a delegate from Redberry asking for traffic bridge across the Saskatchewan. Mr. Hamilton was the provincial rights candidate in the general elections. He has sold out his lumber interests at Radisson and will be away from there for some time.

Ald. Thos. Wilkinson went to Ottawa Sunday evening to give evidence before the parliamentary committee of the House respecting the alleged lumber combine. It is understood that Ald. Wilkinson is in possession of very strong evidence touching this inquiry. Moose Jaw also sent a delegation.

Dr. Molloy has asked for a recount in Morris, Man., where Hon. Colin H. Campbell claims the seat by two majority. The defeat of Mr. Campbell will result in J. H. Howden of Neepawa being taken into the cabinet as attorney general. Hugh Armstrong will succeed Dr. McFadden, while Dr. McInnis, Brandon, will be speaker.

Supt. Brownie was in the city yesterday conferring with the city authorities respecting the new waste-house track scheme proposed by the city. The C.P.R. official has expressed his approval of the principle of the project but the question of curves will have to be gone into before an agreement is reached.

The Regina and Mooseomin hockey teams met here on Monday evening in the finals for the provincial championship. The gateway boys did not put up a very plucky fight. After the match the home club entertained the visitors at the Imperial Cafe, where a pleasant time was spent and a program rendered. There were one hundred and sixty-five in the city and many from other towns. The visiting ladies were kindly entertained at luncheon at the Elks' club.

W. R. Jamieson of Lumsden, one of the old timers was in the city on Thursday. Mr. Jamieson has sold his farm adjoining the valley town, and anticipates taking a holiday to the North-west. It was 26 years ago since Mr. Jamieson came to the North-west. At that time Brandon was the end of the west. From there he came west by oxen and horses. During the winter he lost several horses which were taken by the Indians and half-breeds and for which he was not recompensed by the government. Mr. Jamieson is a native of the Shetland Islands which he expects to visit this summer, after an absence of twenty years having only visited there once during that time.

His Lordship Bishop Vay de Vaya who was recently a guest at Government House, went from here to Lethbridge, where he is to meet the Hungarian miners. One of his objects in making a tour of the west is to meet his compatriots who have settled in this country, and to assure them of his interest. He stayed off at Esterhazy for a couple of days and visited the colony. His friends in making a tour of the west are confident that they will prove to be a valuable acquisition to our population. After visiting Lethbridge he will proceed to Vancouver where he will call for Korea.

Mrs. A. L. Hughes and daughter are guests in the city and are staying at the Lansdowne.

It is learned that J. F. Frame, law clerk of the legislature and the attorney general's department will sever his connection with the government service after the session and become a partner in the law firm of McKemie, Brown and Thom. Mr. Frame has been with the government for a year and during part of that time has acted as deputy attorney general, and he has had a hand in much of the legislation that is being put through this session. Prior to coming to Saskatchewan, Mr. Frame had a successful law practice at Halifax, N.S. His many

friends in Regina will be pleased to note his connection with the well known firm of this city and they will wish him every success.

LEGISLATURE

(Continued from page 4.)

board. He suggested to the commissioner of education that the way out of the difficulty was to nationalise the whole school system of the province, and then these schools could be placed under one board. Mr. Langley—That would set the country on fire.

Mr. Haultain—We might just as well start a big fire as a little one. Clause 51 deals with taxation, and Mr. Haultain urged that the power therein contained might be disposed of with and save any possibility of unjust taxation. Mr. Langley supported this view and the clause was allowed to stand. The speaker took the chair at 5:20 and the House adjourned.

GOVERNMENT DISMISSALS ENQUIRED INTO

(Continued from page 1.)

which Mr. Motherwell replied "all of them." Mr. Haultain—I thought so. Dr. Elcott asked how long before Mr. Honeyman was dismissed had the minister learned he was not a capable official? Mr. Motherwell—I am responsible for his dismissal. Mr. Haultain—Oh, that is the attitude the hon. gentleman takes, then, he will have to change that attitude for we expect information and if the hon. gentleman wants his estimates through he will have to furnish that information. Mr. Motherwell—I never said that Mr. Honeyman was a competent official. Mr. Haultain—It is palpable with everyone that he was a competent official. Mr. Nesley—What is the difference between a faithful servant and a competent servant? Mr. Haultain—Well, to illustrate. The hon. gentleman might be faithful to a certain party, but he might

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not be a competent representative in this House.

Mr. Haultain said further that ordinary courtesy was not extended to Mr. Honeyman when he was dismissed and he asked that the public service was coming to if good men are to be turned out of doors on two month's notice. This concluded the discussion and the items were allowed to pass. The House rose at 5:30.

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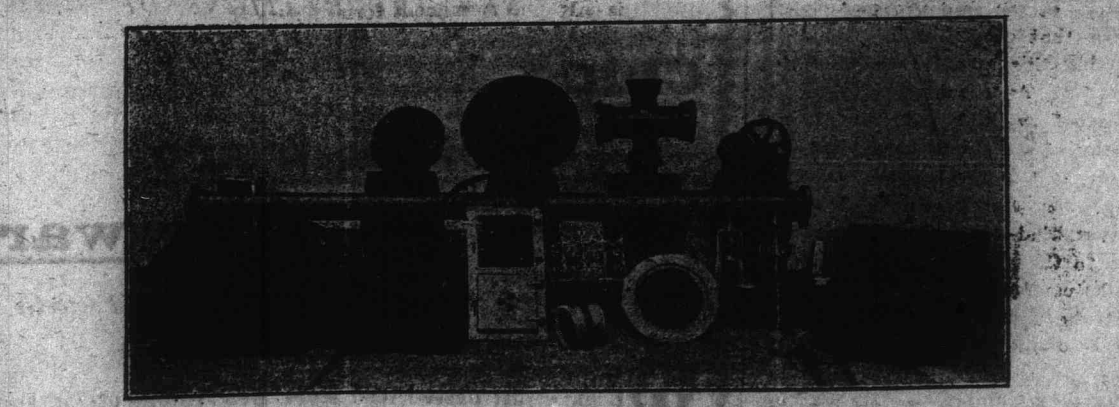
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