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On and after SUNDAY, MAY 14th, trains will leave Toronto (Union Station) as follows:—

EAST.

* 8.30 a.m. | Fxoress for Peterboro', Ottawa, Mont-* 10 p.m. | real, White Mountains and the East. * 5.10 p.m. Local for Havelock.

WEST.

1.20 a.m. For Detroit, Chicago and all points West. 4.60 p.m. Local for London.

NORTH.

6.56 a.m., Elora, Fergus, Brampton, Teeswater, S.60 p.m., Harriston, Mt. Forest, Wingham, etc. 7.50 a.m., For Orangeville, Shelburne, Owen Sound Harriston, Mt. Forest, Wingham. Streetsville, Orangeville, in connection with Steamships for Port Arthur, Winnipeg, etc.

11,26 p.m.; North Bay, Pt. Arthur, Winnipeg, etc.

† Daily. ‡ Monday, Wednesday and Saturday.

Trains leave North Toronto station at 8.45 a.m., 5.30 p.m., 9.30 p.m., connecting respectively at Leaside Junction with these trains from Toronto Union for all Eastern points.

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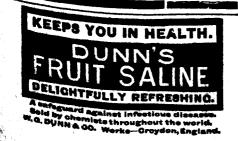
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SCIENTIFIC AND SANITARY.

In view of Chandler's discovery, a year or two ago, of an invisible third orb about which the star Algol, and its dark complexion revolve, it is interesting to know that William Ferrel, the eminent meterologist, suggested in 1855 the existence of such a body. istence of such a body.

An automatic gate for railway crossings, which is lowered so as to stop teams from passing, by the engine of an approaching train, has been tried with satisfactory results at Utica, this last winter. George A. Reynolds invented it The mechanism is electric.

Speaking of power for small shops, "The Metal Worker," says: "The cost of the electric plant compares favourably, power for power, with plants previously available for small work. When installed available for small work. When installed for intermittent use, a contract, varying in price with the locality, can, we are told, be made with the local electric company to supply a small power for one-tenth to one-fifth of the cost of steam."

Experiments have been made with aluminum for horseshoes, by a Penrsylvania manufacturer within the last few month. Methods and machines and with steel had to be modified a little first. The shoes are light, of course; but they wear rapidly, not lasting over a week or ten days on a dirt road, and breaking easily. The experimenter thinks, that possibly an aluminum alloy, might be more serviceable. be more serviceable.

C. H. Acly, ticket agent for the New York Central at Croton-on-the-Hudson, has patented a new railway signal, consisting of a device for placing a torpedo on the track at previously selected places, by such simple movements as are now employed to set semaphores or block signals. It may be used alone or in combination with visual signals; but it has special value when the latter cannot be seen by reason of fog, snow or smoke.

Life-saving kites, invented by Professor J. W. Davis, were tested near Newport about two weeks ago. They are used to carry a line from shore to a vessel. In this case two kites, shaped like sixpointed stars, and seven feet in diameter, were sent out to the Brenton's Reef Lightney and a holf away. One took ship, a mile and a half away. One took the end, and the other was attached half a mile behind it. About an hour was re-quired to reach the ship.

A machine which folds and wraps newspapers for mailing at a rate nearly reaching 2,000 an hour has been invented by Cassius M. and H. D. Bartholomew, of Newark, Ohio. It occupies no more space than a sewing machine. The paper is rolled, rather than folded flat, which is an objection; and it is not clear whether it is adapted for bundles as well as single numbers; but its simplicity and quickness promise to make it useful.

Recent additions to the Zoological Society's Gardens include a Macaque monkey from India, presented by Mr. G. J. Sheppard; a leopard from Kismaya, East Africa, presented by Mr. J. Ross Todd; a spotted ichneumon from Nepal, presented by Liutenant Philip Egerton, R.N.; six vulturine Guinea fowls from East Af-rica, presented by Mr. R. J. Macallister; a black tanager from South America, presented by Miss Trelawny; a greater sul-phur-crested cockatoo from Australia, preplur-crested cockatoo from Australia, presented by M'ss Amy Dundas; three white-tailed gnus from South Africa, deposited; a Burchell's zebra, two sliver-backed foxes, a Cape bucephalus from South Africa, a Salvin's amazon from South America, purchased; four Upland geese from the Falkland Islands, received in exchange; four covpus born in the garchange; four coypus, born in the gar-

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