### The Free Press,

LONDON. ONT.

Menday, September 1, 1890.

A FORMIDABLE OBSTACLE. It is futile to recite the experience of Canada under the reciprocity treaty of 1854 as a reason why such an arrangement would be satisfactory now. The causes which actuated the Americans in abrogating the treaty exist even more strongly to day. To begin with, a report was presented to Congress in 1860 by Mr. James W. Taylor, who is row U. S. Consular Agent at Winnipeg, which analyzes the causes then lying at the basis of dissatisfaction with reciprocity. It is one of the best of the many treatises which were presented from time to time on the subject

Mr. Taylor says: -"The attack upon the policy of reciprocity can be traced exclusively to one quarand Philadelphia and the lines of transport thermal lines" showing the distributation between those cities and the west. \* \* The importing and railway interests of the two states (New York and Pennsyl-Vania) are apprehensive of the competition of the G. T. R. and the navigation of the St. Lawrence, and the north-western and even the Mississippi States must be forced by the abrogation of reciprocal trade and mavigation to pursue certain channels of forward in 1869. By these he exhibited

Against this feeling in the East, the Chicago Board of Trade raised a vigorous protest, and argued, with considerable with the movement of the sun in declina- regarded as particularly favorable to agri- Montreal force of reason, that the trade of the West should not be hampered by being forced to sults than have been derived from either from night to night more nearly after sun- Quebec follow unnatural channels to the seaboard. The interests in the States referred to, how ever, maintained the agitation and were at the earth's vapor atmosphere. Up to the the back of the abrogation in 1865. Hon. present moment this is a field of research lite will this year lead her aid to farmers Israel T. Hatch was a joint commissioner which has been barely touched by modern almost to the utmost of her ability. with Mr. Taylor to report upon the operation of reciprocity, and he took the view perfectly cloudless day from the moon we that Canada could not get along without should have little difficulty in penetrating in Berlin. The idea upon which its States. He reported :-

country except the United States, or tomer. Abrogate the treaty as soon as

And he argued that if that were done Canada would very soon be on her knees before the United States. He also informed Congress that a railway over Canadian prominent men were also of the opinion that if the treaty were abrogated annexation would be sure to follow. Canada

the competitive power of the Canadian ly fed by the evaporation from the tropical Nothing has since happened to reduce railways and lines of navigation, as against ocean; and from it a vapor plane the lines of the Eastern States; but a great extending northward over the Misdeal has been done to increase it. First sissippi Valley to the lower lakes— Maritime Provinces into touch with Western Canada, and in 1885 the C. P. R. was finished. A direct line over Dominion territory was thus established from sea to ample facilities for carrying on a vast internal and foreign commerce. Therefore, the causes which created so much jealousy mapped out elaborate schemes whereby that enormously valuable part of the Dominion should be made tributary to the Eastern States and their railway interests. showing how a thousand Minnesotians could take and hold the entire North-west for the United States. In fact, there is Canada was thought to have reached a stage of development when she was ripe for picking. Their idea was that when for picking. Their idea was, that when the supporting prop of reciprocity was re- of its geographical distribution in different moved the plum would drop into the months of the year, as well as of its eccenbasket held ready for the purpose.

But the plum did not drop. Looking and storm prediction is possible. back at the causes which aroused American hostility to the treaty of 1854 and real-

THE EARTH'S VAPOR ENVELOPES. In an intelligent article on "The Earth's

Vapor Oceans," a writer in the New York Herald states that we are in the period The yolks are to be used in the preparation where the air of this hemisphere is most densely charged with aqueous vapor, the breeder of the most deadly hurricanes. The reason is that the temperature of the oceans, and consequently evaporation from their surfaces, now reaches the maximeteorologist, finds that on the average the effect of solar radiation is greatest September 3. England then and our Atlantic

Coast a little earlier experiences for a short time what would be the constant state of its climate if the sun moved on a plane coincident with the earth's equator. A new and beautiful science, which the Herald ventures to propose, might be constructed if an attempt were made in all countries to determine the distribution of the vapor atmosphere at different seasons of the year. When Humboldt, in 1817, ter: The shipping interest of New York proposed the construction of "iso-

tion of heat over the globe, restrial physics dawned. Much as Humboldt's great scheme did for meteorology. far more has been done for it by Buchan's the geographical distribution of atmospheric pressure—the aerial plateaus, ridges and valleys, undergoing regular changes

science. Could we view our planet on a position of a farmer who has only one cus- atmosphere is very sparse would appear darker and comparatively colorless. From this lunar view point, where the light from the earth wou'd be thirteen times brighter than that of a full moon, we should very distinctly see suspended above the earth a territory, connecting the North-west with vast system of immense vapor seas, leg, and out through the shoe top. His possibility. He shared the views of the Streams of vapor, and perhaps even minor in active operation since 1885, shows how low an estimate he and they had of Canalian enterprise and engineering skill. Other whice constitute the Atlantic, Pacific and Indian oceans, and the lesser bodies of water on the planet. For example, when would be helpless, and what else could she the eye fell upon the basin of the Mexican Gulf it would discover a large, well stored reservoir of suspended water gas, ceaselessthe Intercolonial was built, bringing the the prolific source of energy for all our destructive Western cyclones and tor-

nadoes. We could distinctly trace the fluid Gulf Stream by the superincumbent vapor Gulf Stream, which lends its terrible forces sea. Our canals have been increased in But if our supposed moon-view could be number and deepened, while from the protracted through an entire revolution of Trunk lines of railway thousands of miles | the seasons we should see almost from of tranches have been constructed. In a word we have equipped ourselves with vapor masses. Even if throughout the year not a single cloud was formed on the globe the shiftings and oscillations of the entire network of vapor seas and streams daily for the great bath, which is located in 1860-65 would be felt in a very the arterial circulation of the earth's liquid much higher degree were reciprocity oceans might have been in the studies of lighted and adorned by 20,000 square feet in operation to-day. It was the the lunar observer he would be dazzled belief of American public men in 1865 that and overcome with emotion at the discovwe should be quite unable to hold the and interlocking streams, and their season-North-west and develop it except by al changes, and oscillations commeans of communication running over paratively unknown to science. To United States Territories. And they had gain an insight into these now mysterious phenomena it is not necessary to send observers to the moon. If systematic observations of the absolute humidity of the atmosphere were taken and published by all the weather services of the world it Eastern States and their railway interests. would soon be possible to construct vapor charts of the globe of greater value for all purposes of climatology, weather prediction and storm warning than Humboldt's isothermal or Buchan's isobarometric charts. Dr. Buchan himself not long ago abundance of evidence to show that said:-"Since the chief disturbing in from the United States standpoint fluences at work in the atmosphere are the

The September number begins the tenth izing that those causes are actively operative volume of the Forum. Of educational to-day, it is a tair question to ask whether value is the article by Edward Everett there is any real hope of a fair measure of Hale, who writes the autobiograpical essay reciprocity now? The caudid student of this menth on "Formative Influences," international trade history and prevailing Among the influences which he classifies forces must reply in the negative. as the most important in his career is his There is no hope. The enginery of newspaper training. Professor Young, of American railway interests would be turn. Princeton, explains "The latest Astronoed against the proposition now with ten- mical News, reporting all recent discoveries made by the botanical department of the ed against the proposition now with ten-fold greater potency than in 1865. Our Another article of the same general kind is ous and interesting results, and results and advances that have general kind is splendid carrying equipment fits us for greater rivalry now than then. What the Chicago Board of Trade recognized as the natural route of the Western States to the seabcard is just as much their natural route lo-day. And we must never forget that it is the nation having these enormous interests to be interfered with by reciprocity that Canada would have to make a bargain with. There were, of course, other factors in the general cause which led to the abrogation of the treaty of 1854; but, for the present, we wish to emphasize the important part played by the transportation interests of the Eastern States in the past, and to show that they still stand as a formidable obstacle in the way of reciprocity.

And davances that have general kind is ous and interesting results, and results which are in some respects confirmatory of somewhat similar experiments not long ago reported from Russia. The first and most noticeable effect of the treatment is an enormously increased rate of growth. However, the replants which are lighted seem to work day and night, and to "run very much to leaf." Vegetables shoot up very quickly, and results which are lighted seem to work day and night, and to "run very much to leaf." Vegetables shoot up very quickly, and peas in a few weeks are two or three times as stall as those planted at the same limit of any kind, however, the results are entirely different, and the plants which and grown slowly and by daylight were only any kind, however, the results are entirely different, and the plants which and grown slowly and on the plants which are lighted seem to work day and night, and to "run very much to leaf." Vegetables shoot up very quickly, and results which are lighted seem to work day and night, and to "run very much to leaf." Vegetables shoot up very quickly, and peas in a few weeks are two or three times as stall as those planted at the same limit of any kind, however, the results are entirely different, and the plants which are lighted seem to wor

CURRENT TOPICS.

Ninety barrels of the yolks of eggs were an odd importation from Syria to Paris. of leather of very fine quality.

Late advices from Australia state that:-'The weather has been, up till now, all that could be desired for the crops. The absence of severe frosts has allowed them mum. Mr. Rupert Smith, an English to get well up, and they are now strong enough to stand our severest frosty nights. Altogether, farmers are hopeful of a bumper harvest."

> New York Press:-Senator Aldrich's proposed amendments to the Tariff Bill. providing for reciprocity in sugar, coffee, molasses, tea, hides and fish, by authorizing the President to suspend freedom of importations thereof from nations whose unjust, are probably very near the legislation that will be finally agreed on.

A lady of Maine now declares that she understands the use that fashionable young ladies sometimes make of belladonna, although she found it out by accident. She new and highly important epoch of ter- was pouring the drug from one bottle to another when a drop flew in her eye. Immediately the pupil enlarged itself, and for three days had one large eye and one small one. At the end of that time the influence scheme of "isobarometric charts," brought of the drug passed away, and the eye re-

or nearest the autumnal equinox, and is Ottawa tion. But new and far more important re- culturists, because after it fulls it rises Humboldt's or Buchan's methods remain set than any other full moon of the year, to be gathered from the scientific study of thus prolonging the light needed for securing crops. As the harvest moon does not arrive until September 28th our satel

A pocket telephone has been introduced reciprocal trade relations with the United the earth's atmosphere of dry air. But the use is based is that electric bells are found earth has a second, less elevated and much everywhere, and there is no reason why "For more than half the year the rigor less evenly diffused, atmosphere of vapor, they should not be used for telephoning as of the Canadian climate debars her from which would be more opaque to vision. well. The pocket telephone is to be concommercial exchanges with any other Regions where vapor is accumulated would nected to the bell wires of hotels and hospitals as well as private houses, and it is country except the United States, or appear (partly owing to the invisible high claimed that people will be able to speak to ing that period from taking advantage of a cirrus clouds) comparatively brilliant and distant places by simply taking their teleing that period from taking advantage of a rise in the market. She is placed in the ruddy, while regions over which the vapor phone out of their pockets as they would their watch.

During a thunder storm in a Colorado lumber camp a Mexican was struck on the head by lightning, which ran down one side of his face, over the shoulder, trans- KINGSTON, MONTREAL & QUEBEC versely across the breast, down around one equatorial currents, Kuro Siwos and Gult face was badly burned and the course of masses, forming Mediterraneans, the Ama- brand. His clothes were torn from him

In Rochester the street railway lines are being changed into an electric system. The inhabitants of one of the principal avenues thought that steel poles would be more sightly than wooden ones, and petitioned the Council to allow them to be erected. The superintendent of the fire alarm system opposed the application on the ground that the chances of fatal or serious accidents in cases of broken electric light wires coming in contact with the trolley wires would be greater with steel than with wooden poles. The Council Committee shrewdly thought that with proper connections there should be no danger from this source, and granted the request of the

The famous plunge bath at Helena, Mon., has no equal on the continent, writes a correspondent. Natural hot springs discharge about a million gallons of water daily for the great bath, which is located under a separate structure of Moorish architecture, painted in Oriental colors, and lighted and adorned by 20,000 square feet of stained g ss. The size of the building of stained g ss. The size of the building may be estimated from the fact that the plunge is 100 feet wide by 350 feet in length, the glass roof being 100 feet above it. With its surroundings of mountain scenery and flowers and trees and fountains and grass plots the great bath house is picturesque beyond description-a vision of Oriental luxury amid the wilder-

The Volapukists, lately in session in Boston, claim 50,000 disciples, of whom about one-tenth are entitled to be called experts. These 50,000 are scattered about the world more or less, but are chiefly gathered in several cities where the Volapuk craze, like the Ibsen fad, has been epidemic. It is claimed for Volapuk that it will become the universal language after a little more time. But in the race for universality Volapuk seems to be far behind possible importance." Until more is known English, and in danger of being distanced, for already it is said that there are not tric distribution and driftings from day to day no great advance in accurate weather more than a few thousand square miles of territory, in the interior of Asia, where English will not pass current with at least one person in every community. It seems as though persons who have surplus time for the study of language on their hands would do better to cultivate a good speaking acquaintance with the English language proper than to trifle with a mongrel creation that has no abiding place on the face

The experiments in the cultivation of plants under the electrical light, recen ly



laws may be reciprocally unequal and Brener Bros., London, Ontario.

CANADIAN

# **Excursions**

The harvest moon is the full moon on Kingston and Return \$ 6.30 7.30 9.30 Dates going, August 29th, 30th, 31st, September 1st, good to return

> until September 15th, 1890. Excursionists to Montreal have privilege of taking boat from Torento or Ringston, returning by rail at proportionately low rates. For further particulars apply to any agent of

> the Company or to
> W. R. CALLAWAY,
> Dist. Pass. Agent,
> Toronto.
>
> Dist. Pass. Agent,
> Montreal

T.R. PARKER City Pass. Agent, 1 Masonic Temple.

Annual Excursion

FROM LONDON All rail 9 30
Rail or boat Toronto to
Montreal 14 30
Rail or boat Kingston to
Montreal 12 10 Means and defendation and Co.'s steamers.

For tickets, Pullman car accommodation and further particulars apply to the agent at London station and E. De la Hooke, 3 Masonic Temple.

London.

J. HICKSON,

General Manager.



General Manager.

LONDON.

SEPARATE TENDERS (IN DUPLICATE) for sup, lies, coal, fuel wood and services for the above corps, during the calendar year 1891, will be received by the Minister of Militia and Defence, at Ottawa, until Monday, 8th September 1891, which was a service of the services of t

Tenders to be addressed to the Minister of Militia and Defence, at Ottawa, and marked 'Tenders."

For particulars and forms of tenders apply to

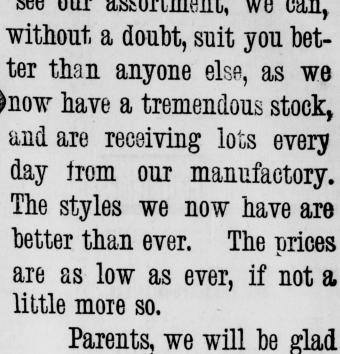
Department of Militia and Defence.

IN THE MATTER OF THE ESTATE OF George H. Wade, late of the City of London, in the County of Middlesex, telegraph operator, in the County of Middlesex, telegraph operator, deceased, notice is hereby given pursuant to R. S. O., 1887, chapter 110, that all persons having any claims against the estate of the said George H. Wade, who died on the 76th day of June, A. D. 1890, are hereby required to send by post prepaid or to deliver on or before the 16th day of September next, to Messrs. Macmillan & Cameron, 70½ Dundas street, London, solicitors for Peter tyron Wade, the executor of the estateoi the said deceased, full particulars of their claims and statement of their account, and the nature of the security (if any) held by them. And notice is further given that after the said 16th day of September the executor will proceed to distribute the assets of the said deceased among the persons entitled thereto, having regard only to the claims of which notice shall have been given as above required, and the said executor will not be liable for the said assets or any part thereof so distributed to any person or persons of whose so distributed to any person or persons of whose claim notice shall not have been received at the time of sucd distribution. — MACMILLAN & CAMERON, Solicitors for the Executor. Dated at London this 13th day of August, 1890. H14v-



## Opens To-Day.

No doubt the Boys will want fitting out, or at least a great many of them. Well, if you come down and see our assortment, we can,



to let you see our Boys' Suits regardless whether you are prepared to buy or not.

The Great One-Price Clothing House,

150 DUNDAS ST., LONDON.

Alf. Taylor, Manager.

--THE-

### Dodge Wood Split Pulley Co

TORONTO,

Manufacturers of the "Dodge" Patent Wood Split Belt Pulleys and "Dodge" Patent System of Rope Transmission of Power.

LIGHTEST CHEAPEST AND STRONGEST PULLEY IN THE MARKET\*

Send for Catalogue and Discounts.

WOOD SPLIT PULLEY

LONDON WHOLESALE HOUSES.

TORON TO.

HEADQUARTERS FOR

General Shelf Hardware,

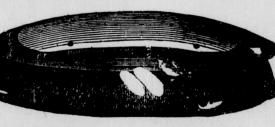
GLASS,

Paints Oils, Nails, Builders' Hardware, Pocket and Table Cutlery, Silverware, Guns, Rifles. Revolvers and Ammunition of all kinds, Axes, Cut X

Saws, Lanterns, &c.

BOWMAN, KENNEDY & CO., LUNDON, ONTARIO.

THOMAS BRYAN



London Brush Factory AWARDED SILVER MEDAL AT WESTERN FAIR, 1887. Special Lines. - Feather, Hemp and Wool Dusters. Large assortment CARPET SWEEPERS.

MARSHALL BROS

WHOLESALE IMPORTERS OF

67 Dundas Street, London, Ont.

ADAMS

WHOLESALE GROCERS AND IMPORTERS OF Teas, Sugars, Tobaccos, Wines and Spirits

DUNDAS STREET, LONDON, ONTABIO.