## WORLD OF SCIENCE. ations of Mars -Disease Germs Discod in Ice-A Marvellous New Type Writing Machine-

Various Notes.

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why patented movement is said to have aggrested by the surface of an elephant's which consists of interminigled layers of ind soft material, so that the process of ig always produces a series of ridges upon face. The new system of paying is the Mr. Raynard, the English astronomer, imprises the use of blocks having alternate and soft layers—such as Portland cement and soft layers—such as Portland cement mixture of sand and cement, which are mixture of sand and coment, which are on eige, so that the eiges of these laming a wearing surface. The blocks are made inches high, and may be worn to less than on without becoming smooth, like granite

here the untrained eye will see nothing mire and dirt, says Sir John Lubbock, ice will reveal exquisite possibilities. The we tread under our feet in the street is a sy mix ure of clay and sand, soet and water. by mix ure of they and said, souland water, brate the rand, however, as Ruskin observes the atoms arrange themselves in peace bording to their nature—and you have the al. Separate the clay and it becomes a white rth, fit for the finest porcelain; or if it still rth, at for the these porcessin, or it is sail ther purifies itself you have a sapphire. ske the suct, and if properly treated it will be you a diamond. While, lastly, the water, prified and distilled, will become a dewdrop crystalize fato a lovely star. Or, again, you hay see in a shallow pool either the muddying to the bottom or the image of the sky above. Profs. Trowbridge and Hutchins, of Harand College, report that their extensive and areful researches tend to disprove the view

hat oxygen exists in any part of the sun. A Pittaburg paper describes a new telephone exhibition in that city that do s away with on exhibition in the large of speaking. A sensitive plate in presses against the largex and glands of the nack, and as the jaws are moved in conversation the motion sends the words along the wire as justicity as the telephone now in use."

Grave concern is felt in the cities of New York and Brooklyn on account of the report York and Brosklyn of account of the report of Dr. Pruden determining the existence of living germs of disease in the ice, of common fonemption. He has declared that by ctual count a pint of melted ice contains an verige of 500,000 bacteria, and warns people gainst using the water of the Hudson in the cinity of the field supply without careful

A type writing machine has been invented which can be operated as fast as stenography.
The letters have to be touched in their order, but all the letters of a word can be touched intantaneously and the word can be student in-tantaneously and the words appear all right. It also uses log-types for the small words. Moreover, an electric motor will furnish the lower to operate it, so that the writer will only have to lightly touch the keys.

An Italian astronomer, Signor Schapsrelli, An Imman autronomer, Signor Schaparelli, has just published an account of some observations of the planet Mars made by him during the year 1876, 1879 and 1882. The conditions upon that planet are supposed to be not wery different from those existing here; so it is inferred animal life subjects there. More is known of the poles of Mars than of the poles of our own planet, and it is even decided that the color of the foliage there is red. If recent years it has been discovered that he surface of the land in Mars is gridironed lines leading from the sea. It was ascer-ned by Schaparelli that the number of these ines had been materially increased during the the theory advanced in explanation of these egular lines is that they are canals, and it is siculated that they are at least thirty miles ide. The surface of the land in Mars must be ore uniform than it is on our earth f r its inabitants to successfully operate each a gigarlic stem of canals for any purpose known to us.

### OUTRAGE ON FATHER RYAN. LONDON, Dec. 26 .- Father Ryan's imprison-

nent provokes much angry pritest, both Irish nd Eng ish. The Daily News, however, though lescribing this as Mr. Bultour's latest outrage, akes occasion to say: "We have denounced he Plan of Campaign. We regard it, and lways regarded it, as necessarily illegal in form ilways regarded it, as necessarily illegal in torm independent of being used dishon-stly in subtance." But Father Ryan was sent to rison for inciting the people to practise this legal, dishonest plan. The Daily News, there legal, dishonest plan. The Daily News, there is legal, dishonest plan. The Daily News, there is age crop of Minnesota and Dakota did not exceed 15 bushels. A mere handful of people had ervent flome Rulers as a backslider. The ceiling among Irish Catholics is that a Governnent capable of sending a priest to prison re capable of anything. This tends to deepen he hatred of the Government, but also, for the time being to quietness. And on the whole, ader the releatless enforcement of the C.imes act, Ireland is quieter on the surface.

There is a good deal of comment on the action if the prison authorities in forcibly depriving

ather Ryan of his clothes. It appears he re-used to remove his clerical garb and don the rison clothes, whereupon a number of guards, sing as much force as was requisite for the aclishment of the object in view, removed clothes, or rather the greater portion of is clothes, or rather the greater pirton of em, leaving him locked up with the prison niform. This, says one set of pipers, was a stardly outrage. This, says another set, was mply enforcing the law, which sees no dis-nction between the soutane of the priest and he coat of the civilian, when each has violated law and become amenable to its discipline.

### A SOCIETY'S TROUBLES. ANOTHER JOURNALIST TO BE ARRESTED.

DUBLIN, Dec. 27 .- At a meeting at Limerick delegates of the Gaelic Athletic Association e Fenian party defeated the members of the ational League in the election of officers. The rests finding themselves outvoted withdrew. sociation. A committee was appointed to atpd a convention at Thurles.
Warrants have been issued for the arrest of

r. Cooper, the editor of the Cork Examiner, a

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# RECIPROCITY

Discussed by Commercial Men of Boston-Mr. Erastus Wiman's Opinion.

Boston, Mass., Dec. 28.—The banquet of the Merchants' Club of Boston at the Vendome to night was a brilliant affair. 260 prominent men of Uanada and the United States were present." President Lane sat at the head of the table and on his right Governor Ames of Massachusetts, Hon. J. W. Longley, Attorney General for Nova Scotia, Hon. Robert R. Hill, Congressman for Illinois, Hon. Peter Mitchell of Mont-real, Hon. J. Snowball of New Brunswick, Hon. Reat, Hon. J. Snowsall of New Brunswick, Hon. Nelson Dongley, Congressman from Maine, Erastus Wiman of New York. On the left sat Mayor O'Brien of Boston, Hon. John Macdonalu of Toronto, Honorable John H. Rogers, Congressman from Arkansas, W. Muloch, Vice-Chancellor of Toronto University, United States Senator Hoar, of Massallusts. Park Ransay Wicks of Toronto Honorables. chusets, Prof. Ramsay Wright, of Toronto, Hon. Joseph McKenna, Congressman from California, Francis B. Thurber, of New York Chamber of Commerce. Down the tables sat Dr. O'Reilly, of Toronto, J. X. Perrault, of Montreal, H. W. Ladd, of the Provincial Club, and scores of Boston merchants. President Jonathan A. Lace introduced the speech-making by making a statement of the usefulness of the club, which represents hundreds of millions of dollars of capital employed in all branches of trade.

Mr. Wiman referred to the obstacle to en-

larged and profitable trade presented by the Customs line between the United States and Canada, and illustrated how the abolition of the Customs line would promote commercial prosperity, by reference to the absolute free trade that exists between the States of the American Union. After pointing out the value to the United States of free trade between the two countries, he said: The same remark applies to every development that could take place in Canada under Commercial Union, just the same as it would benefit the whole Union from the grow h and development of any State within it. The political difference in government would make no difference in the profits realized, so long as commerce between the two countries was as free as the commerce is now etween the States of the Union.

Mr. Wiman then stated that two great events in the history of the continent were significant of such future development in the northern por-tions as could hardly be over-estimated in their extent and importance. The first of these was the cession by the Hudson's Bay Company of the vast territories which for over a century had been in their possession as a gift from the English Government. This vast territory, added to that which Canada previously possessed, imparted an importance to the Dominion that only a few Americans, even at this late day, realized. Thus, few will believe that Canada is a larger country than the United States. Yet the figures show that the area included within the Union is 3,036,000 square miles, while the area included at the country than the Union of the country than the Union is 3,036,000 square miles, while the area included at the country in 2,500,000 square miles. ed within the Dominion is 3,500,000 square miles. This brings one to the next great event in the history of the northern part of the continent. That event is the completion of the great Canadian Pacific railway. The completion of this great aftery of commerce gives the promise of a growth and a greatess in the land to the north that the United States cannot afford to lore eight of. If by a commercial bargain it could be opened up to the commerce of the land; if by a freedom of interchange of all products the area of the commerce of the United States can be doubled, surely the discussion of the question is worthy of your highest thoughts, and its promotion worthy of your most earnest efforts.

Mr. Wiman then proceeded to describe the resources possessed by Canada, and somewhat astonished his bearers by their extent, variety and riches. As to unfavorable climatic condi-tions, he maintained that the growth of wheat was the truest test of climate. Inasmuch as wheat lay at the foundation of the sustenation of human life, the country which was able with the least expenditure to produce the best re-sults, possessed a potential ty of profit greater than that of any other. Still another advantage was found in the very rigorousness of the climate during the winter months. It would seem that in these distant regions, hitherto almost unknown, a provision of nature had afforded a most marvellous conjunction, in the great stimulating power from the heavens above, and equal stimulating power from the earth beneath. Ss great has been the result of this conjunction that during the last harvest produced a surplus of wheat to the extent of 12 millions of bushels, of barley seven millions, and of potatoss one million, while in the mater of potatoes the crop was a failure almost all over the continent. If without the drawing of a sword, the shedding of a single drop of blood, or the cost of a single dollar, the a ea of the trade of the United States could be doubled, what higher duty rested on the merchants and manufacturers of the country than to see to it than this duty was discharged. Referring to the enormous mineral resources pos-sessed within Canada, Mr. Wiman said that what the devil was to reigion, phospurous was to iron, and that Canadian iron was especially to fron, and that Canadian iron was especially free from phosphorous, while that from the south, and a great deal of that from the north, was heavily burdened with this detrimental element. He claimed that within a very short the distance of Bos on, in N.va Scotia, the most important mine al properties could be had for a very trifling investment, and that under Commercial Union they could be a could be the country of the countr worked to the greatest possible advantage for the benefit of the New England States. He fully described the vast timber resources possessed by Canada, and referred to her fishery assets, which he claimed were the most valuable in the world. A hasty sketch of the proposed plan was then submitted, and Mr. Wiman re-

sumed his seat, having in a very short space of time referred to numerous topics and travelled over a vast extent of territory.

After Mr. Wiman, Congressman Hill spoke, ther Sheehy, on retiring, declared that hences the Prests would have nothing to do with a sasociation. Father Sheehy and delegates by thirty-one national clubs subsequently id a meeting and decided to actindependently the Fenian members of the Gaelic Athletic countries should adopt the largest possible comcountries should adopt the largest possible commarcial reciprocity compatible with existing rights. Instead of using the old interregation, "How much can we get," we should ask ourselves, how much can we give. Speaking of national obligation, he said we should adopt no measure that would be an entering wedge to ansection.

> Hon. J. W. Longley said he was charged with being an annexationist and Yankee sympathizer. He felt bound to say that God in nature never intended that Nova Scotia should trade with Ontario, Montreal and Toronto. Drummers have been sent into Nova Scotia, and have sold \$10,000,000 worth of goods, and we have paid for them in solid cash, money that we have sold size, our, our worth of goods, and we have paid for them is solid cash, money that came from our trade with the United States and the rest of the world. Every single dollar that Nova Sootia ought to send to the United States in return for what the United States bought of her has been sent up to Ontario and Montreal. In discussing the subject of the evening, the President said, in addition to the "Let em atone" policy, other plans of the establi-hment of better com-mercial relations with these provinces are first, the reciprocity of 1854 renewed, second a new reciprocity treaty which shall be more reciprocal; third, commercial union; fourth, annexation. The last we will dismiss from the docket. ion. The last we will dismiss from the docket.
>
> Mr. Lane favored Commercial Union and thought, notwithstanding Mr. Chamberlain's declaration to the contrary, that the English Government, would not dishie it when it saw how Canada might be developed.
>
> Latters of feerst were and from Sir Donald A. Smith, Montreal; who, while in two of drawing closer the business relations of the wo nontries, was not branged to agree with those

drawing closer the business relations of the so ounties, was not prepared to agree with those was not prepared to agree with those who advected Unrestricted Commercial Union.

L. H. Davies, of Plince Edward Island, who declared in two of free trade between the two declared in two of free trade between the two drugs and doing tancy work.

Scotia, who in a long letter, to ke a stand in two of February works are the substractions of a broad kind.

Hon Peter Mitchell of Montreal was the next speaker. After a sew preliminary words.



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he said: I believe the time will come when the people and the Congress of the United States will see that it is for the greatest good of the greatest number that one of the most intelligent colonies of the British Empire with its 5,000,000 inhabitants to-day, although it may have thirty-million inhabitints in fifty years from now, shall have free commerce with the United States, I am a natural free trader. We have tried to get free trade, but we have had to follow your example, and it has brought into our midst a body of powerful men, who have built up large fortunes under the tariff and who have great interests at stake in perpetuating this tariff system. They have corrupted our politics by piling in large sums of money at elections. It has creat d among us an imperium in imperio. It will take the greatest minds of our country to resist the power exerted by these.

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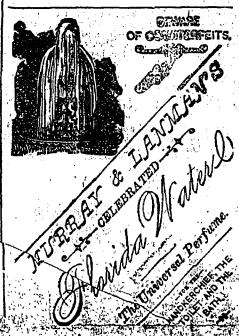
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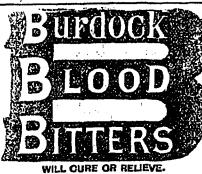
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Circassian. Jan. 24
Folynesian Fob. 4

Rates of passage from Montreal via Halifax:—Cabin \$58.75, \$78.75 and \$88.75 (according to accommodation) Intermediate, \$35.50. Steerage, \$25.50. Rates of passage from Montreal via Portland:—Cabin, \$57.50. \$72.50 and \$82.50 (according to accommodation); Intermediate, \$35.50; Stoerage, \$25.50.

Rates of passage from Raltimore to Liverpool:—Cabin, \$60, \$65 and \$75. Intermediate, \$30. Steerage, \$20.

NEWFOUNDLAND LINE. The Steamers of the Hallfax Mail Line from Hallfax to Liverpool, via St. John's, N.F., are intended to be despatched FROM HALIFAX. 

Nova Scotlan......Monday, Jaz. 1 Kates of passage between Hallfax and St. John's:-Cabin \$20.00; Intermediate, \$15.00; Stoerage \$6.00. GLASGOW LINE. During the season of Winter Navigation steamers will be despatched regularly from Glasgow for Roston (via Halifax when occasion requires), and regularly from Boston to Glasgow direct, as follows: FROM BOSTON.

Carthaginian About Dec. 12
Siberian About Dec. 26
Scandinavian Atout Jan. 9 The Steamers of the Glasgow, Londonderry and Philadolphia Service are intended to be despatched from Philadolphia for Glasgow:—

FROM PHILADRLPHIA. Hibernian About Dec. 9
Norwegian About Dec. 23
Manitobart About Jan. 6

THROUGH BILLS OF LADING. Granted to Liverpool and Glasgow, and at al Continental Ports, to all points in the United States and Canada, and from all Stations in

Canada and the United States to Liverpool and Glasgow. Via Boston, Portland and Halifax. Connections by the Intercolonial and Grand Trunk Railways, via Halifax; and by the Con-tral Vermont and Grand Trunk Railways

(National Despatch), and by the Boston and Albany, New York Central and Great Western Railways (Merchants' Despatch), via Boston, and by Grand Trunk Railway Company.

Through Rates and Through Bills of Lading for Rast bound traffic can be obtained from any of the Agents of the above-named Railways. For Freight, Passage or other information, apply to John M. Currie, 21 Quai d'Orleans, Havre: Alexander Hunter, 4 Rue Gluck, Paris; Havre: Alexander Hunter, 4 Kus Gluck, Paris; Aug. Schmitz & Co. or Richard Berns, Antwerp; Ruys & Co., Rotterdam; C. Hugo, Hamburg; James Moss & Co., Bordeaux; Fischer & Behmer, Schusselkorb No. 8, Bremen; Charles

Behmer, Schusselkorb No. 8, Bremen; Charles Foy, Belfast; James Scott& Co., Queenstown; Montgomerie & Workman, 35 Grace-church street, London; James and Alex. Allan, 70 Great Clyde Street, Glasgow; Allan Brothers, James street, Liverpool; Allans, Res & Co., Quebec; Allan & Co., 112 LaSalie street, Chicago; H. Bourlier, Troonto; Thos. Cook & Son, 261 Breadway, New York, or to G. W. Robinson, 1863, St. James street, opposite St. Law rence Hall. rence Hall. H. & A. ALLAN. 4 India street, Portland. 80 State street Boston, and 25 Common street, Montrea



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Nov. 18, 1887.

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