

Drawing Nitrogen From The Air

The process of drawing nitrogen from the air for use in manufacturing artificial fertilizers and high explosives may be seen in operation at the new 50,000 horse-power plant at Adda in the Hardanger fjord, Norway.

The separation of the nitrogen from the oxygen in the air is accomplished by compressing the air into liquid form. The nitrogen, which boils first at about 320 degrees below zero (Fahrenheit), is led away by specially constructed mains, and the oxygen, which boils at about 295 below, is utilized on account of its intensely low temperature, to assist in the liquefaction process. Ultimately it escapes into the air again.

The nitrogen gathered in this manner is put into form for use by combining it with calcium carbide, a substance known to practically every automobilist owing to its offensive odor. Carbide is made by fusing limestone and coal in the intense heat of an electric furnace. The operation can only be performed where electricity is very cheap. When carbide is heated in an atmosphere of nitrogen it absorbs the nitrogen, forming a compound known as nitrolim. This is the new fertilizing product which Norway is now producing on a wholesale scale.

The power for the gigantic Adda plant is furnished by the nearby waterfalls. The lime and coal are fused together in a series of furnaces, each employing 5,000 horse-power. All the pyrotechnics of a steel furnace are eclipsed when one of the great Adda crucibles is tapped, for the molten

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New Books

In the latest fiction we have recently added to our stock the following:

- The Abyss Nathan Kussy
- The Least Resistance Kate McLauvin
- The House of Gladness Emma S. Allen
- Cam Clarke John H. Walsh
- Gibbey of Giamshell Alley Van Dresser
- They of the High Trails Hamlin Garland
- And It Came to Pass Hearts and Faces, etc.

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America's Vast Wealth in Mexico

Estimated Billion and a Half Invested in Mines, Oil Fields and Railroads.

The question as to the total amount of American and foreign investments in Mexico has been much discussed in Wall Street since the situation on the border reached a critical stage and intervention has become a grave possibility. Estimates run from \$1,000,000,000 to \$1,500,000,000, and most banking houses with Mexican connections agree that the lower figure is altogether too conservative.

For many years, in fact since the Mexican War, capital has poured into Northern Mexico because of the enormous mineral resources of the States of Sonora, Chihuahua, Coahuila and Nuevo Leon.

Many millions also have gone into the sections around Tampico, where the great oil fields are situated, and great sums have been invested in the rubber plantations of Tampico and Yucatan.

Public Utilities Investments American capital has also gone into public utilities in large amounts, and American bankers and their clients have very large investments in the Mexican National Railways and their subsidiaries.

The National Railways of Mexico alone has a stock issue of \$250,000,000 and bonds aggregating \$455,000,000. The Mexican Government owns 52 per cent, only is held in the U. S. stock and a substantial amount of the bonds, and the remainder is owned in the United States, Great Britain and France. The preponderant interest, however, in the minority stock is held abroad. It is said that about 20 per cent, only is held in this country. This is also true of the bonds.

French investors have been the hardest hit by the financial difficulties of the Mexican railways resulting from a series of revolutions that has taken place in the last five years. Cash dividends and interest have been suspended for several years altogether, although some of the obligations have been paid in scrip. It is impossible to enumerate all the mining properties in the northern part of Mexico which represent American investments. The Greene-Cannery is one of the largest of these. It has a total capitalization of \$60,000,000, practically all of which is owned in the United States.

The American Smelting and Refining Company has enormous investments in mining and refining plants and refineries at Monterey, Aguascalientes and Chihuahua. These three refineries alone have an annual metal capacity of over 1,500,000 tons. The had recently invested in an auto for Sunday pleasure. She thought of the many other families in the neighborhood whose sons had not yet heard the "call." And she was old and a widow and alone. She thought of the interest on the mortgage, that could not be paid. How unfair it all seemed. She had done her share—she had given her boy to the King. The great war was still raging. Would it ever end? Perhaps it would end more quickly if all the young men were compelled to go and do their share.

Why did her son have to go to fight for the whole neighborhood? So she thought and murmured over and over again, "It is not fair." "It ain't a fair law." "Old Mrs. MacPherson has gone fair law."

PERSONALS

Miss Jean Black is visiting friends in Moncton.

Miss Frances Fish is spending the summer in Burnt Church.

Miss Margarita Cash of N. Y., is visiting Mrs. C. P. Stothart.

Miss Ida MacArthur is visiting the Misses Savage of Miryville.

Gordon Petrie is visiting his uncle, Wm. Smallwood, Moncton.

Miss Ethel Falconer is visiting her sister, Mrs. I. P. Jonah of Amherst.

Miss Marjorie Davidson left on Saturday for a trip to St. John and Digby.

Miss Mary Lawlor is the guest of Mrs. W. S. Montgomery of Campbellton.

Miss Margaret Kerr of Colorado Springs, Colo., is visiting Miss Mary Murphy.

Mrs. Macdonald and children, of Sydney, N. S., are guests of Mrs. Beynon.

Pte. Wm. McGrath, Jr., whose father is very ill, is home from Valcartier.

Miss May Murphy, principal of the Stives Athol School is home for the holidays.

Miss Jennie Perry, of Sussex, is visiting her aunt, Mrs. William Simonds.

Mr. and Mrs. John O'Reilly of New York are in town visiting relatives and friends.

Miss Josephine Dickie of Campbellton is visiting Miss Frances Chiff, Upper Derby.

Mrs. Robt. Armstrong and Miss Nancy Russell have gone to Youghall for the summer.

Dr. and Mrs. W. T. Ryan of Boles-ton, were among the visitors in town last week.

Mrs. W. J. Jardine and family have joined Mr. Jardine at their new home in Paspobiac, P. Q.

Miss Annie Lawlor spent last week with her sister, Mrs. Thos. Howard, Moncton.

Inspector P. G. MacFarlane has returned to St. Stephen to spend the summer holidays there.

Rev. and Mrs. Henry Waterton of Kingston, spent part of their honeymoon in town last week.

Mrs. Everett Vye and little daughter, are visiting the former's grandparents, Mr. and Mrs. James Bell, of Taymouth.

Mrs. Cole, of Brewer, Me., who was visiting her son, A. H. Cole, Express Agent here, went to Marysville on Thursday.

Mrs. John Barron and children spent the week-end with Mrs. Barron's sister, Mrs. W. J. Loggie of Loggieville.

Mrs. Daniel Sullivan and daughter, Lila, left yesterday morning to visit the former's daughter, Mrs. Chas. M. Payne, Fredericton.

Joseph McGrath of Inkerman, came yesterday to see his brother Wm., who has been lying at the point of death since Saturday.

Jack McKendry, manager of the Royal Bank at Inverness, C. B., spent several days last week with Newcastle and Douglastown friends.

Miss Eulah and Master Walter Stuart left on Saturday to spend several weeks of their vacation with relatives in Fredericton Jct.

Mrs. Margaret Carruthers and her niece, Mrs. Watson, of Napanog, R. I., are visiting the former's sisters, Mesdames Sweeney and Mary McBride.

Mrs. H. H. Stuart of Newcastle and Mrs. J. D. Lyon of Millerton, left on Saturday for a few days visit to friends in Grangeville and Harcourt.

Geo. Stables, Miss Helen Stables, Miss Isabel Ferguson, and Mr. and Mrs. John Elder, of Millbank, left last week for an auto trip through N. B. and Maine.

Misses Muriel and Gladys Scribner of Newcastle are visiting their grandparents, Mr. and Mrs. J. B. Tingley, 61 Weldon street.—Saturday's Moncton Transcript.

Miss Margaret B. Appleby, assistant to Mr. John S. Scott, Newspaper Circulator, who left New Glasgow in May, for Boston, to consult a throat specialist, has returned home, much improved in health.

Miss Helen Mersereau, organist of the Brunswick Street Baptist church and Miss Nan Mersereau, of the Receiver General's office, will go overseas with their father, Lieut.-Col. Mersereau, of the 132nd Battalion. Mrs. Mersereau will also accompany her husband.—Mail.

Miss Josie Appleby of Derby Junction, who has been taking up a course of Stenography at Fisher College, Boston, Mass., has graduated from the school, receiving besides her diploma in Short-hand, diploma for proficiency in the "Touch System Typewriting."

Mr. G. E. Hayward of Edmonton, Alta., is visiting friends and relatives in this city. Mr. Hayward, who is president of the Hayward Lumber company, is a son of the late Geo. H. Hayward, of Lincoln. He left this morning by automobile for Newcastle, accompanied by his brother, Mr. C. C. Hayward.—Monday's Fredericton Gleaner.

GASOLINE FOR SALE

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California wine growers may find a market for their products in India, according to United States Consul Laing at Karachi. The importation of European wines in his district has fallen off on account of the war, and he suggests that it would be well for California growers to send samples to India of wines similar to those formerly consumed by the natives.

FREE! - FREE!

Each person sending a reply to this great Dot Counting Contest will receive a Souvenir absolutely free regardless of whether answer is correct or no—Send your answer in immediately.)

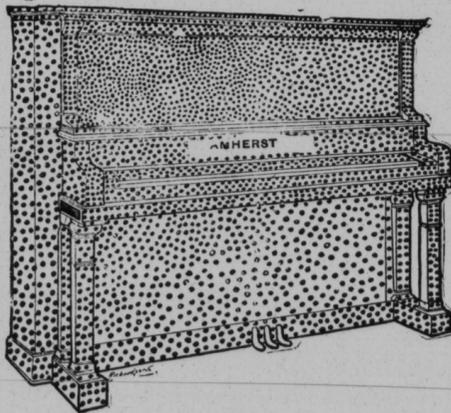
How Many Dots are on this Piano? Count Them--It can be done THE PERSON SENDING IN THE NEATEST CORRECT REPLY GETS A NEW \$375 PIANO FREE. SEND YOUR ANSWER IMMEDIATELY

DIRECTIONS! Count the dots carefully, send your solution in on this or a separate sheet of paper, or other material. Neatness as well as correctness will be taken into consideration in making awards. THIS PIANO WILL BE GIVEN ABSOLUTELY FREE TO THE PERSON SENDING IN THE NEATEST CORRECT SOLUTION

CONDITIONS! Each answer must bear the proper amount of postage. Write name and address plainly. Each contestant will be notified by mail. This is strictly a Piano Advertising Contest.

AWARDS! Each person sending a reply will receive a Fountain Pen absolutely Free. (If called for.) Each reply will be entered in the Piano Competition. In addition to this each contestant will receive a purchasing award of \$25, or more good toward the purchase of a New Piano or Player. Each contestant receiving a purchasing voucher will be awarded choice of Diamond Ring, Gold Watch, Chest of Silver, with the use of the voucher in accordance with the conditions.

JUDGES! The Advertising Manager of The Union Advocate, Newcastle; and the Advertising Manager of The Commercial, Chatham, have consented to act as Judges. These two to select a third Judge. This assures every contestant of fair treatment.



AMHERST PIANO

This Contest is for the Families Who Do Not Own Pianos. ONLY ONE MEMBER OF ANY FAMILY PERMITTED TO ENTER--ONLY ONE SOLUTION TAKEN FROM ANY CONTESTANT--MAIL YOUR ANSWER AT ONCE.



WHY WE DO THIS: The talking machine and the automobile have cut deep into Piano sales in the past five years. Families that would naturally buy Pianos have been purchasing Autos and talking machines. The object of this Advertising Plan is to revive interest in the Piano as the greatest medium of home entertainment. This places the Piano directly before the families that do not own Pianos. Every Home should have a Piano and this method of advertising brings the Piano closer to the home as it eliminates selling the NEATEST CORRECT SOLUTION



It Costs Nothing to Try--You May Win this Magnificent Piano--Contest Closes July 22nd--Send Your Answer Immediately

ALL CONTESTANTS WILL BE NOTIFIED AT CLOSE OF CONTEST.

Mail or Bring Replies to Name

A. J. BELL & CO. Address

NEWCASTLE, N. B. Number of dots counted