

FLAME RUNS THIS ICEBOX; STOCKHOLM SCIENTISTS BARE LATEST REFRIGERATION METHODS

Washington, Aug. 31—New and original refrigerators have been invented, one cooled by a gas flame and the other by steam.

Both are based upon the familiar principal, that the rapid evaporation of a liquid into a gas absorbs heat from its surroundings and accordingly cools them. One uses ammonia for this purpose and the other simply water.

Invented By Swedes.

The former is the invention of two Swedes, Baltzat de Platen and Carl G. Manters of the Royal University of Technology at Stockholm. In employing ammonia at the cooling gas it is like most refrigerating plants, but has no condensing pump as is customary. In fact it has no machinery, no moving parts of any kind.

It consists simply of a series of four tight metal containers, connected by tubes, the whole charged with ammonia, water and hydrogen under a pressure 180 pounds per square inch and hermetically sealed. The first vessel is a generator in which ammonia gas is liberated from the liquor by heating with a gas jet or electric coil. The ammonia gas then passes into a rectifier and condenser where it is cooled by running water and reduced to the liquid state. This liquified ammonia goes next into the evaporator where it is relieved of its pressure and becomes gaseous again.

The evaporator is situated inside the refrigerator box which is continually cooled by the expansion of the liquid ammonia into ammonia gas. This finally flows into the absorber where it dissolves in water and runs back to the generator to start upon its rounds once more. The evaporation of the ammonia is due to its fall in pressure from 180 pounds per square inch in the generator to a partial pressure of 30 pounds per square inch in the evaporator. This is accomplished by an ingenious application of a law discovered by John Dalton over a century ago, that the total pressure of a mixture of gases is equal to the sum of the pressures that each gas in the same space would exert if the other gases were absent.

Operates Cheaply.

Now the evaporator is filled with an atmosphere of hydrogen gas which gives a partial pressure of 150 pounds. When the ammonia which has been liquified under a pressure of 180 pounds comes into the chamber where the pressure due to hydrogen is only 150 pounds, it evaporates at a rate sufficient to make up the difference between the two, 30 pounds, and this causes the cooling. The hydrogen is kept from getting into the other part of the apparatus by a curved tube filled with water through which ammonia can pass but not hydrogen.

French Machine Interesting.

The manufacturers say that the family size refrigerator will absorb heat to the amount of 320 British Thermal Units an hour and may be run for a day by currents of 3 kilowatt hours of electricity and about 120 gallons of water. If electricity is not available a gas flame may be used

for heating the generator. The apparatus is not at present automatically started and stopped but is so arranged that a single handle turns on the gas and water supply together. So the cook can bake her cake by a gas fire and then switch it over to freeze her ice cream.

The French machine invented by R. Follain is interesting because water is the only means employed. This is doubly advantageous since water is everywhere cheap and absorbs a larger quantity of heat on evaporation than any other substance known. In this apparatus the evaporation is hastened and therefore the surface of the water in an airtight tank by the injection of a steam jet in a constricted tube.

The water vapor and steam are condensed in an adjoining chamber by a spray of cold water. Several such systems can be arranged in series in order to secure the desired reduction of temperature. Such a machine will cool 1250 gallons of water from 77 degrees to 37 degrees Fahrenheit. To accomplish this requires about 790 pounds of water used as steam for the injector and 22 tons of water for cooling.

FISHERMAN WAS ATTACKED BY A HAWK

Herring Cove, Aug. 31—Claude Barrach, a member of the crew of the schooner Harry P., engaged in swordfishing out of Herring Cove, was attacked by a large hawk while on the vessel's masthead, this afternoon and was badly scratched about the face before he could beat off the ferocious bird. Barrach was handicapped in his struggle by having to use one hand to hold onto the masthead but finally struck the bird a blow that stunned it and knocked it into the water, where it was kicked up by another man on the vessel.

The hawk's wing measured three feet six inches from tip to tip and its talons were very large and sharp. The bird is now in the possession of an employee of the Leonard Fisheries, Halifax.

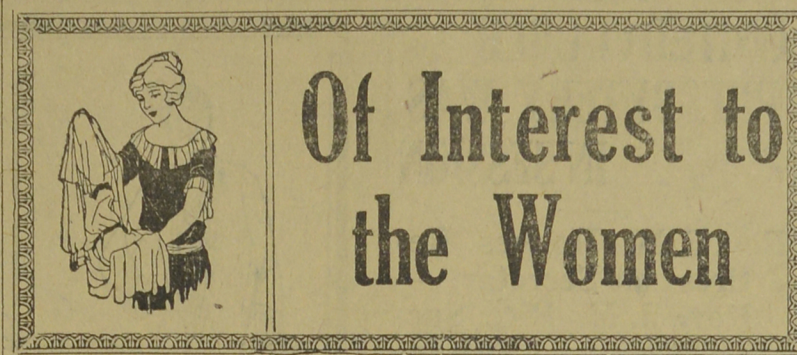
NO CONTEST IN PROVENCHER

Winnipeg, Aug. 31—A. L. Beaubien, Liberal-Progressive candidate, was elected by acclamation in Provencher constituency today. Dr. D. H. McFadden, Conservative candidate, did not appear to file nomination papers. Mr. Beaubien was a member of the last Parliament.

In the last election he received 2,736 to 2,656 cast for his Liberal opponent, Edmond Comeault.

FIRE ALARM LOCATION IN THE CITY

- 6 Argyle and York Sts.
- 7 Victoria Hospital.
- 8 Children's Aid Home.
- 12 Westmorland and Aberdeen Sts.
- 13 Northumberland and Saunders Sts.
- 14 Brunswick and Symthe Sts.
- 15 Charlotte and Smythe Sts.
- 16 George and Northumberland Sts.
- 17 King and Northumberland Sts.
- 21 Queen and York Sts.
- 23 York and George Sts.
- 24 Queen and Westmorland Sts.
- 25 Brunswick and Westmorland Sts.
- 26 Charlotte and Westmorland Sts.
- 27 King and York Sts.
- 28 Saunders and York Sts.
- 31 Queen and Regent Sts.
- 32 Needham and Regent Sts.
- 34 Queen and Carleton Sts.
- 35 Brunswick and Carleton Sts.
- 36 Charlotte and Carleton Sts.
- 37 George and Regent Sts.
- 38 King and Regent Sts.
- 43 St. John and Aberdeen Sts.
- 44 Queen and St. John Sts.
- 45 Brunswick and St. John Sts.
- 46 Charlotte and St. John Sts.
- 51 King and Church Sts.
- 52 George and Church Sts.
- 53 Union and Church Sts.
- 54 Shore St. and University Ave.
- 55 Brunswick St. and University Ave.
- 56 Lansdowne St. and Waterloo Row.
- 57 Grey St. and University Ave.
- 112 Smythe and Aberdeen Sts.
- 113 Argyle and Northumberland Sts.



Of Interest to the Women

WOOLEN SUIT RECOMMENDED.

The Weather Man and Dame Fashion, important but mythical beings appear to be in league for once. Summer or no summer, women go right on wearing woollens, and fortunately enough are not seriously inconvenienced most of the time.

One wonders what ever took the place of kasha and balbriggan, and one rejoices in the advance information that broadcloth is to be an important fall fabric entry. Not that broadcloth is not encountered now and then for some of the attractive skeleton or unlined coats, without which it is impossible to get about comfortably, but the news that it is slated for revival is as welcome as that challis in modern design is again permissible.

Moire, of course has been a head liner for some time. It remains to be seen whether it is going to become a successful member of the workaday, community or be a gad-about with no more mission in life than may be accompanied after six. It seems rather to be more approved for such frocks and suits as are abroad by day.

A smart silk or light weight woolen suit is an excellent investment. There have been—it takes no stretch of memory to recall—even crape de chine suits and, of course there have been rajahs and pongees and silks of that ilk—and there are now, if you have but eyes to see into the smartest circles.

The most sensational suit developments have to do with models of the compose type, the jacket being in color, at least, only dimly related to the skirt. Naturally the jacket is the darker in tone, and to top a white flannel or kasha shirt with a new jacket is to be following the line of least resistance, since every one is doing it.

CANDIED PEARS.

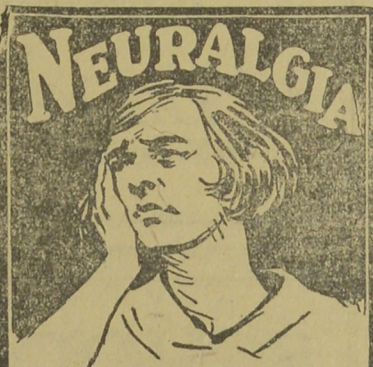
Peel, core and halve the pears. Have ready and boiling a thick syrup made with 1 cupful of water to each 2 cupfuls of sugar. Drop the pears in this and let them cook until tender but not broken. Remove from the fire and let them stand as they are for two days. Then remove and drain the pears, and sprinkle sugar over each piece separately.

Dry them slowly in the sun or in a very moderate oven with the door partly open.

Pack in jars and cover.

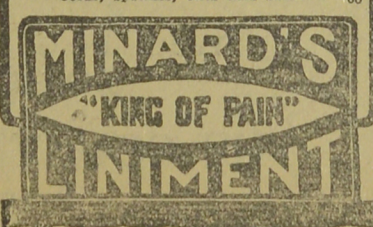
PEACH CAKE.

Sift together 2 cups of pastry flour ½ teaspoon of salt, 3 tablespoons of sugar and 3 teaspoons of baking powder. Beat the yolks of 2 eggs until thick and light add to the first mixture with 3 tablespoons of melted butter; mix well and beat in 1 cup of milk; continue beating until the batter is smooth then fold in the stiff beaten whites of two eggs. When well blended spread in a shallow pan to the depth of 1 inch. Peel and cut ripe peaches into quarters or eighths, according to their size. Press the sharp edges into the batter in two parallel rows lengthwise of the pan; sprinkle with sugar and mace. Bake in a hot oven 25 minutes. Serve hot with sweetened cream.



Bathe the affected parts with Minard's in warm water. Quick relief assured.

Always keep Minard's handy for colds, sprains, cuts and bruises.



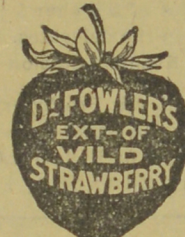
PEACH PICKLES.

Peel a peck of peaches and put them into a stone crock. Break up an ounce of whole stick cinnamon and ½ ounce of whole nutmegs. Add to them an ounce of whole cloves, pour a little boiling water over them and scatter through the peaches. Boil together for 10 minutes 3½ pounds of brown sugar and 1½ quarts of cider vinegar and while very hot pour over the peaches. Pour off the next day, heat and pour over the fruit again. Do this three times on consecutive days. Then boil up fruit and syrup together for about 10 minutes and can while hot.

PEGGY IS HOME WITH—

New York, Sept. 1—Peggy Joyce is back from Europe with five diamond bracelets, two solitaire rings, one ulcerated tooth and one sprained ankle. The only engagements she had in mind on arrival were with a doctor and a dentist.

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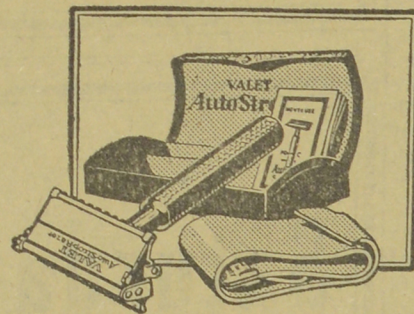
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