#### Dyspepsia Caused Her Agony After Every Meal

Mrs. M. Caldwell, 2335 Hemlock St., Vancouver, B.C., writes:—"After suf-fering for years with agony, from dyspepsia and indigestion, after every meal, I started taking

## urdock LOOD

until I had used three bottles and was completely relieved of my trouble. Now, I can eat anything I wish without having any bad after effects." Co., Limited, Toronto, Ont.

1 pair Solid Brick Houses, El-lerbeck Avenue; just completed. 7 rooms. Will sell separately. Also three new houses, in good location, on south side of Prin-J room Frame House, garage and shed; all improvements. 440 Division Street.

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ranging your home, see us for new pictures. Choice assortment of the very

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HOTHING SUPERIOR TO THAT OLD, DE THOMAS' ECLECTRIC OIL

ON TO MAN AND BEAST, THERE

### INSTALL

Chamberlin Metal Weatherstrip

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Ends Draughts.

Saves Coal.



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Teach your children to use Cutiours Soap because it is best for their tender skins. Assisted by ocsional applications of Cuticum tment to first signs of irritation or dandruff it keeps the skin and scalp clean and healthy. Cuticur lcum is cooling and soothing



## The Development of Heating And Ventilating in Canada

Dealt With by Prof. L. M. Arkley of Queen's University-Interesting Details About Heating Development in Kingston.

ing and Ventilating in Canada," read which were tapped into the lower ing and Ventilating Engineers at ace long enough to take a four foot in Queen's University, Kingston:

The subject of heating and ven- Custom House was heated in the tilating divides naturally into two same way about the same year 1855. sections, first the heating and ventilation of comparatively small dwelling houses and the same applied to large buildings, factories and shops. They will be treated in this furnaces were made by bricking in

method of heating small dwellings probably progressed in the air was taken by ducts to the differfollowing order:

a Heating by open fires, without ventilating flues; b Heating by open fires with ven-

tilating flues; chimney attached;

d Heating by box stoves;

hot-air furnace; h Heating by low pressure steam

One of the first references to this subject may be found in the Proceedings of the Royal Society of Canada (1905) where it is stated that in 1627, Champlain built chimneys in his "abitation" or combined dwelling house and fort, for ventilation purposes. These chimneys were not connected to the fire places, but served to remove some of the smoke and Commercial Bank building located at soot from the rooms.

Louis Herbert and Guillaume Couillard, two of the earliest settlers in Quebec city, built smoke escapes in their homes similar to those Champlain. They also fitted sashes in the window frames and hung doors, and arranged them all to open

and close.

scription of a typical dwelling which has some bearing on the heating culated. Among the first buildings question: "The four walls were made of logs that would hew to about one foot square, these were fastened securely at the corners, and the seams. Bagot and West streets, and the calked with moss and plastered with clay." This construction should give a coefficient of heat transfer of less than 0.1 B.t.u. per sq. ft. per degree difference of temperature, which is better than some of the fancy modern wall construction that exists today. The kitchen had a special fire place for cooking and "two or three chimneys heated the main part of the house." Double windows and doors were also used about this time. The white population of the whole of Canada was less than 10,000, so that the field for heating engineers was rather limited, and as near as the writer can gather there was no controversy on between the advocates of window ventilation and those who favored the mechanical system.

It must be remembered that wood was the fuel used at this time and it not realize the advantage of having it dried before using and the result was much sickness, due to the fumes and smoke in the unventilated house Wood was first sold publicly for fuel in 1647 at Montreal and brought 1 know these things will not cure thier shilling and 3 pence per cord. It trouble-in some cases do not even held the field as fuel in Canada until about 1875 when the old Grand Trunk Railroad began to use coal.

The Fire Place. open fire place built of stone with Take a teaspoonful of the powder or four compressed tablets with a little chimney attached, came in about 1675 and was the standard method of heating and ventilating for years. One of the best examples of these old fire places can be seen to-day in the Chateau de Ramesay of Montreal, which was built in 1705. In the yaults of this old building with its walls of solid masonry four feet COD thick are two fire places, 5 ft. wide by 4 ft. high by 3 1-2 ft. deep, in practically as good repair as when they were used over 200 years ago. In the side of one fire place is a large oven which was used for cooking purposes. The building is now heated by means of steam coils, which according to the best available information were put in about the

The next development was that of

year 1885.

low and bake oven above. It was the custom in the Montreal century for people who could not ed" body builders! Remember it is afford to buy one of these to rent a special private formula designed for one for the winter months paying 35 a particular purpose to build up for the season.

From this time on the development of heating in the cities may be the oldest cities in Canada is King- go to Jas. B. McLeod and get a 16 having a total surface of 6,475 sq. ston Ontario, which was founded by day Guaranteed Double Strength Er-Count Frontenac in 1673. The fol- bac treatment, mark the date on the ft. operated in the forced circulated

Steam Heating. system," and consisted of a sheet money !

The following is part of a paper, iron pot or tank for a boiler fitted on "Development of the Art of Heat- with drop tubes eighteen inches long before the recent semi-annual meet- sheet and hung over the fire. This ing of the American Society of Heat- boiler was bricked in with a furn-Lexington, Ky., by Mr. L. M. Arkley, stick of wood. The radiators were professor of Mechanical Engineering made of pressed iron sheets riveted at the edges and held apart 1 1-2 inches by stay bolts. The Kingston

> Hot Air Heating. In 1858 hot air furnaces were used to heat certain bank buildings. These the old cast iron stove leaving an air space around from which the warm

ent rooms. Another interesting hot air installation was that installed in 1870 in the old stone building at the Royal Military College, used at one time on the lakes, but now used as a dorc Heating by box stoves bricked of the building was placed a large into form a kind of hot-air furnace; box stove mounted on wheels on a f Heating by the standard type of track. These stoves were bricked in and space left around the sides g Heating by hot-water systems; and top for heated air which was taken in ducts to the nalls in the upper floors; there was no attempt made to ventilate with this system of heating. The object of the wheels and track was to provide a way for cleaning and repairing the furnaces.

Hot Water Heating. Perhaps the first building to be heated by hot water was the old the corner of King and Queen streets About this time it is recorded that where Angrove's foundry now stands. Box coils were used for radiators with cast iron screens to cover the coils and marble slabs on top to imof prove their appearance. The furncoils instead of the cast iron sections now in use and the furnace was built to take the regulation four foot stick of cord wood. The grate of this type In 1670, is found the following de- of furnace was often made of pipe through which the hot water cirheated in this way were Dr. Betts house on Union street, Mr. James Macnee's house at the corner of

> Court House. Cast iron furnaces for hot water heating came into use about 1876 and were made by Warden King, of Montreal, among the first residences to be heated in this way were those of Mr. Alexander Gunn and Mr. John Carruthers.

Of the larger building a unique system was installed in Rockwood Hospital in 1866, this might be de- mission printed in 1863. scribed as the vault and steam coil system: Narrow halls or vaults were built in the basement, and in these vaults were placed twenty-eight thousand feet of one-inch pipe ar-

Gazay Stomach.

Bisurated Magnesia — not the ordinary commercial carbonate, citrate or milk. can obtain from practically any drug-The next development, the large gist in either powder or tablet form. water after your next meal, and see what a difference this makes. It will

# **ENERGY AND VIGOR**

Money Back If Not Satisfied After Using 16 Day Treatment To Prove Amazing Value.

Double Strength Erbac in convenient tablet form is a special private the stove. These came into use formula of a well known chemist enabout the middle of the 18th cen- dorsed by doctors-and praised by tury and the first ones made in Can- thousands-who have proved its cerada came from the Forge St. Mau- tain value in cases of "chronic weakrice. Quebec, which began to oper- ness," nerve exhaustion; despondenate in 1737. These stoves were cast cy; lack of ambition, endurance and sist in the control of the temperathe courage and ability to aciron double deckers with furnace becomplish things you would like to

> Don't confuse Double Strength Erhac with ordinary tonics or "so-call-

You know how you feel and what 17 air washers, 19 steam operated your condition really is to-day. Now air tempering and re-heating units lowing is a resume of the develop- calendar and start using the tablets hot-water system, and 10 exhaust ment in Kingston. according to directions. At the end fans having a total capacity of 148,of 10 days, make a careful note of 000 cu. ft. of air per min. All the your condition, take a look in the air supplied to the building by the The first residence in Kingston ance—then at the end of 16 days interior courts, is tempered to 50 mr. B. M. Britton, corner of Syden—satisfied that you have improved at ham and West streets. The method least 100%, take the empty Erbac air from the two chambers, the large employed was known as the "Gould box back to the druggist and get your air from the two chambers, the large committee rooms, the kitchen, and

## Stomach TENTEST PHILLIPS Milk of Magnesia

ly urges this souring waste from

the system without purging. It is

Insist Upon "Phillips"

Each bottle contains full direc-

Most of the data regarding King-

**LETTERS** 

To The Editor

Of The Whig

Amherst Island Questions.

ult., I see that a writer informs us

that she has discovered a panacea

for the ferry troubles and instead of

the all water cure she will now treat

us in the future to a little electricity

Is Miss Boyle aware that Mr. Mil-

ler made the remark on the platform

sixteen months age that he wished

to be reeve for six months only, and

in that time he would have the ferry

in operation. I wish to say that a

man with business ability would

have had everything in shape months

ago, and given the electors a vote

on it. Why the delay? For the sim-

ing so smoothly as he wishes and

are not likely to. I wish to say that

Mr. Miller has made the remark that

he does not intend to give the elec-

tors a vote on the ferry question.

This I can verify. What assurance is

there that our next reeve is going to carry out the little role of Mr. Miller

in a manner as satisfactorily to him

as Mr. Patterson did in the past?

building of a ferry? What assur-

ance is there that this grant from

our roads for the crying lack of \$6,-

THE PHYSICALTERS TO PARTY

INFANTS CHILDREN

ither Upium, Morphile III neral. NOT NARCOTIC

LOSS OF SLEEP

At 6 months old

35 Doses -40 CENT

with the aid of her good friend, A

Sir:-In your issue of the 29th

far more pleasant to take than soda.

tions. Any drug store.

Instead of soda hereafter take a of bicarbonate of soda, leaving the little "Phillips Milk of Magnesia" in stomach sweet and free from all water any time for indigestion or gases. Besides, it neutralizes acid sour, acid, gassy stomach, and relief fermentations in the bowels and gentwill come instantly.

Better Than Soda For fifty years genuine "Phillips Milk of Magnesia" has been prescribed by physicians because it overcomes three times as much acid in the stomach as a saturated solution

ranged in long coils with return from all locker rooms and lavatories. bends and headers. These were supplied with live steam from a boiler ston came from Mr. J. J. Druce of plant situated at a lower level so the firm of McKelvey & Birch that the condensed steam from the (founded in 1854), and Mr. David coils drained back to the boilers by Hall, a former employee of the firm gravity. Air from the heating vaults also contributed. was led to the different rooms in the building, above through tin lined ducts built in the walls. Outside air was taken to the vaults by similar c Heating by open fire place with for training midshipmen for boats ducts. This system was similar to that employed to heat the first Parmitory for the Cadets. In each end | liament Buildings at Ottawa in 1860, and both contracts were probably carried out by the same engineer, Mr. C. Garth, of Montreal. This system is still in use in Rockwood.

The first attempt at combined heating and ventilating of large buildings was that of the Old Arts Building of Queen's University in 1875. The halls and some of the rooms were heated by direct radiation, the radiators being made with M. Rankin, M.P.P. a cast iron base with short pieces of pipe screwed into the top of the base and capped at the other end. In addition to this there were tin lined boxes in the basement in which were placed box coils made of pipe. The air was taken from outside passed over these coils then up through tin lined ducts to the rooms above, it was one of the duties of the janitor to regulate the inflowing air to this ple reason that things are not workbox. The system was the old style. two pipe system, the boiler being placed in a pit in the basement.

Schools were first heated by steam about 1890 and fans for ventilating were first used about 1895.

The Parliament Buildings. Perhaps no better contrast tween heating and ventilation early and modern large buildings can What assurance is there that this the steamer Brockville to be reduced the groom's gift, a handsome three be cited than that of the Parliament Buildings at Ottawa.

In 1859, notices were issued inviting tenders for heating and ventilating the main Parliament Building and two large Departmental Buildings. The successful bidder was C. Garth of Montreal and the following description of the system he employed is taken from the report of a Com-

300 in an imaginery trust fund, in-"The mode of heating embraced by stead of being used as designated, Mr. Garth's contract is a combina- and we wouldn't have been treated tion of the steam coil and vault sys- to the spectacle of three autos and a tem, in the system vaults or load of hay being mired on our main un- travelled road in a radius of one chambers , are derneath the building in which coils mile, not speaking of the rest of the of iron pipe are placed, in this way island which, is in a similar condiall the air used is heated and then tion and shouldn't be if that 1,500 conveyed through flues in the walls odd dollars kept back yearly for the to the rooms. The boiler room is past four year, had been wisely exoutside the building to be heated and pended. ing two 24 in. iron smoke pipes from our worthy council. Twel dollars in white silk flat crepe, with Lilian, Mr. and Mrs. D. Andrews, Mr. the boilers inside a ventilating shaft please, for the operation. 15 ft. square by 128 ft. high. The I think Miss Boyle is quite incon- carried a lovely bouquet of Ophelia Emma Sharp and Mr. Leslie Sharp. heat from the smoke pipes rarefies the air in the shaft and causes sufinstantly neutralize the dangerous, ficient suction to remove the vitiated harmful acid in the stomach which now causes your food to ferment and sour, making gas, wind, flatulence, heartburn and the bloated or heavy, lumpy feeling that seems to follow most everything you eat. You can enjoy your meals without a fear of indigestion. which is known as the 'downward

> method of ventilation'." Modern System. The modern heating and ventilating system designed by Mr. M. F. Thomas of Toronto, for the new Parliament Buildings in 1917, may be described as follows:

The whole building except the Commons and Senate Chambers and several corridors is heated by direct radiation. There are 886 radiators aggregating 44.341 sq. ft. of heating surface operated as a forced circulation hot-water system. For warming the rooms in the tower where the elevator is too great for the hotwater system, about 2,000 sq. ft. of steam radiation is installed. To asture of different sections of the building under varying conditions, groups of rooms having the same exposure are served by one branch main fitted with a diaphragm valve under the control of a thermostat

located in a typical room. ife-giving, age-defying vitality and The ventilating systems consist of 7 fresh air supply fans with a total Here's a simple test worth trying: | capacity of 176,000 cu. ft. per mina

A NEW AND BETTER SHEATHING "BUILD FOR WARMTH"

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A BANNER Furnace gives you steady heat all through the house all day and all night. No other heating system compares with a furnace and no other furnace compares with the "BANNER" for living comfort and economy in fuel. Ask our dealer or write to us direct for

The Galt Stove & Furnace Co., Ltd.

Booklets describing BANNER Furnaces.

Kingston Representative E. LAWRENSON, 387 Princess Street.

sistent when she expects the fare on proses and maiden-hair fern. She wore \$6,300 will ever be used towards the mader \$1.00. It is quite true that strand pearl necklace. She was at-Mr. Campbell could withdraw said tended by Miss Helen Chambers, her steamer from the route at any time, sister, who wore pale sand crepe de the provincial government, will be but your Mr. Campbell, as a gentle- chene and carried a lovely bouques, given in the future if not used as man, has assured us of a boat ser- Mr. William England supported to vice for this season and did some ac- groom. The bridal couple stood under Miss Boyle gives me the advice to cident unexpected or unavoidable an arch of evergreens, decorated with get out of the rut. I wonder if she take place that said steamer be streamers and bells. The music was means the ruts and holes created on | withdrawn. Mr. Campbell would see | rendered by Mrs. William Armstrong. that we were given transportation on some other boat. Stella, June 2.

GEORGE T. HOWARD,

SHARBOT LAKE WEDDING

Armstrong-Chambers Nuptials newly-weds received many useful

noon on Wednesday last, the home of does not cause trouble from exces- pass along, gather in the cobwebs bride entered the parlor to the strains ployee of the C.P.R. culation of the air is secured by plac- some manner, present their bill to riage. She was beautifully gowned Mrs. R. Grimshaw and daughter touches of georgette and pearls. She James Andrews, Misses Jessie an

and table was tastefully decorate with streamers and flowers. The R. R. No. 2 groom's gifts to the bridesmaid and organist were gold bar pins, wit black onyx and pearls, and to the groomsman a gold watch chain. The

presents showing to the esteem in on the 2nd of June Sharbot Lake, June 5,- At high which they were held. Mr. and Mrs. Armstrong later mo was the fuel used at the inhabitants did To Neutralize Acidity and Ferments- placed 10 ft. lower than the steam. However we look for a remedy in Mr. and Mrs. Harry Chambers, Shar- ored to Sharbot Lake, and departed coils, in order to save heat and to our road construction gang, who are bot Lake, was the scene of a spring on the train for eastern points, a make it possible to get the returns expected to run true to form and in wedding when their second young- showers of rice and good walked back to the boilers by gravity. Ven- consequence we can look for the est daughter, Margaret Elsie, be- The bride travelled in a sandalwood tilation is provided as follows: ex- grader coming along any day, with came the bride of Mr. Russell Arm- colored flat silk crepe dress, with ternal air is supplied to the heating our road overseer manipulating the strong, youngest son of Mr. and Mrs. navy blue coat and hat to match. On vaults through long underground wheel on top accompanied by two Samuel Armstrong. Rev. H. Cole- their return, they will reside at Toducts, in this way it is tempered and men driving four horses, who will man officiated. The charming young ronto, where the groom is an em-But before giving up to chronic dys- sive condensation in the pipes first on the outer edge, squeeze up a little of Mendelssohn's wedding march The out-of-town guests included coming in contact with the air. Cir- dirt in the centre, put in the day in with her father, who gave her in mar- Mr. and Mrs. D. Bustard, Mr. and

Following the ceremony, the guests

assembled to the dining room, where

a dainty lunch was served. The room

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When Baby Complains.

There are many ways a baby has of expressing any pain or irregularity or digression from its normal condition of health and happiness. A short sharp cry, a prolonged irritated cry. Restlessness, a constant turning of the head or of the whole body, fretful. In these and other ways a baby tells you there is something wrong. Most mothers know that a disordered stomach, or bowels that do not act naturally are the cause of most of baby's sufferings. A call for the doctor is the first thought, but in the event of any delay there should be ready at hand a safe remedy such as Fletcher's

Castoria has been used for baby's ailments for over 30 years and has merited the good will of the family physician in a measure not equaled by any other baby's medicine because of its harmlessness and the good results achieved.

And remember this: Castoria is essentially a baby's re

edy and not a cure-all for every member of the family. Wha night help you is too often dangerous when given to a babe Fletcher's Castoria safely relieves

Wind Colic Diarrhea

To Sweeten Stomach Regulate Bowels

Aids in the assimilation of Food, promoting Cheerfulness, Rest and Natural Sleep without Opiates.

To avoid imitations, always look for the signature of Chart Tletch Proven directions on each package. Physicians everywhere recommend it.