

7-01-5.

Ottawa, June 25, 1923.

Dear Sir,-

I beg to advise you that I am sending you to-day under separate cover, two copies of the plans and specifications for the proposed installation of a steam system of heating at the Mount Elgin Institute, Muncey, Ont., and would ask you to provide facilities so that the contractors wishing to tender may have ample opportunity of examining the plans and specifications.

Kindly note that the tenders close on July 19th, and after that date, I would ask you to kindly return the plans and specifications to this office.

*PLD*

Under separate cover I am also sending you Forms of Tender which I would ask you to supply to the contractors wishing to submit a tender. There is also enclosed a "Form of Contract" which should be left open for examination by the firms tendering.

Your obedient servant,



(J. D. MCLEAN)  
Assistant Deputy and Secretary.

The Postmaster,  
St-Thomas,  
Ont.

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

PUBLIC ARCHIVES  
ARCHIVES PUBLIQUES  
CANADA

7-0-5.

Ottawa, June 26, 1923.

Dear sir,-

I beg to advise you that I am sending you to-day under separate registered cover, two copies of the plans and specifications for the proposed installation of a steam system of heating at the Mount Elgin Institute, Muncey, Ont., and would ask you to provide facilities so that the contractors wishing to tender may have ample opportunity of examining the plans and specifications.

Kindly note that the tenders close on July 18th, and after that date, I would ask you to kindly return the plans and specifications to this office.

Under separate cover I am also sending you Forms of Tender which I would ask you to supply to the contractors wishing to submit a tender. There is also enclosed a "Form of Contract" which should be left open for examination by the firms tendering.

Your obedient servant,

(J. D. MCLEAN)  
Asst. Deputy and Secretary.

*R. G. L.*  
*J. D. McLean*  
The Postmaster,  
London,  
Ont.

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

PUBLIC ARCHIVES  
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CANADA

EXD.

Ottawa, June 25, 1923.

Beverend Sir,-

I beg to advise you that I am sending you to-day under separate registered cover, one copy of the plans and specifications for the proposed installation of a steam system of heating at the Mount Elgin Institute, and would ask you to kindly provide facilities so that the contractors wishing to tender, may have ample opportunity of examining the plans and specifications.

Kindly note that the tenders close on July 19th, and after that date, I would ask you to kindly return the plans and specifications to this office.

Under separate cover I am also sending you Forms of Tender which I would ask you to supply to the contractors wishing to submit a tender. There is also enclosed a "Form of Contract" which should be left open for examination by the firms tendering.

Your obedient servant,

*Handwritten signature*

(J. D. MCLEAN)  
Asst. Deputy and Secretary.

Reverend S. R. McVitty,  
Principal, Mount Elgin Institute,  
Muncey - Ont.

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

PUBLIC ARCHIVES  
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CANADA

Account, amounting to \$16.50, dated June 30/23, from  
The London Advertiser, sent to The King's Printer, July 7/23.

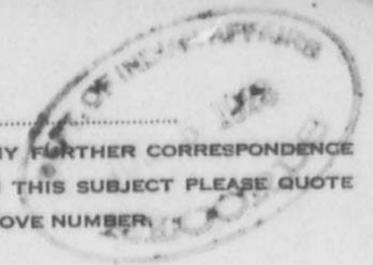
*L.H.S.*

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

**PUBLIC ARCHIVES  
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CANADA**

7-0-5

*1 original  
2 copies*



No. ....  
IN ANY FURTHER CORRESPONDENCE  
ON THIS SUBJECT PLEASE QUOTE  
ABOVE NUMBER

Post Office,

London, Canada,

The Secretary  
Dept. of Indian Affairs,  
Ottawa, Canada.

July 4th, 1923

56654

Dear Sir,-

I beg to acknowledge receipt of your # 7-0-5. dated 25th ultimo, re plans and specifications for the proposed installation of a steam system of heating at the Mount Elgin Institute, Muncey, Ont. and in connection therewith would state that the forms of tender, mentioned in your letter, which you were sending under separate cover, have not been received up to the present time.

Sincerely yours,

*T. Duncan*  
T. Duncan.  
Postmaster.

7

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

PUBLIC ARCHIVES  
ARCHIVES PUBLIQUES  
CANADA

7-0-5



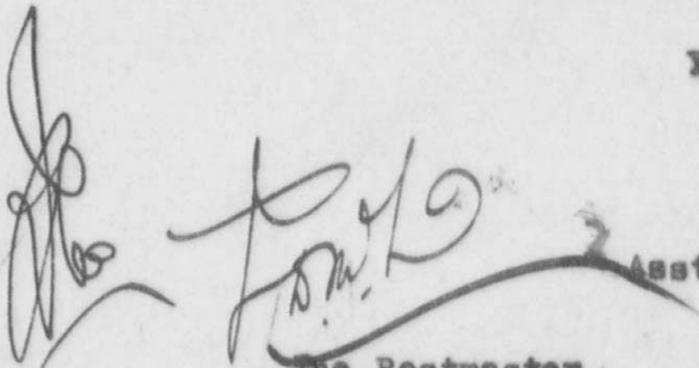
Ottawa, July 6th, 1923.

Sir:-

I have your letter of the 4th instant, in which you state that the tender forms sent you to be used in connection with the submitting of tenders for the new heating system at the Mount Elgin Institute, have not been received.

I am today sending you additional copies.

Your obedient servant,



J.D. McLean.  
Asst. Deputy and Secretary.

The Postmaster,  
London, Ont.

Encl.

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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CANADA

7-0-5  
Phone Main 7404—Branch Exchange

Cable Address—"Engineer, Toronto"

# The Canadian Engineer

A Weekly Paper for Civil Engineers and Contractors

Established 1893

Also Publishers of  
"THE MONETARY TIMES"

*Architect*



HEAD OFFICE, TORONTO  
62 Church St., Ontario, Canada

36815

62 Church St.,

Toronto, Ont. July 10/23.

Mr. Duncan C. Scott,  
Deputy Superintendent,  
Department of Indian Affairs,  
Ottawa, Ont.

Dear Sir,

We would be much obliged if you would let us know to whom the contract has been awarded for installing of a steam system of heating in the Mount Elgin Institute, in Muncney, Ont.

for which tenders were called to be in July 18.

In case you can also let us know the amount of the contract, the names of other bidders and any other information of interest, we would appreciate it. Please do not bother to write us a letter. Just make a memo on the margin of this letter, or on the back of it, and mail in the enclosed stamped return envelope.

Trusting that you will be kind enough to co-operate with us by letting us have this information as promptly as possible, so that we in turn can pass it on to engineers, contractors and manufacturers throughout Canada, we remain,

Yours truly,

THE CANADIAN ENGINEER:

Construction News Department

IB Buckle/HG.

*JEP*

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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CANADA

7-0-5

Architect

Mount Elgin Indian Residential School

S. R. McVITTY, Principal

□ □  
□



Muncey, Ont. July 8th /23 192

Sec'y Dep. Ind. Affairs,  
Ottawa, Ont.

36856

Dear Sir-

I notice tenders for heating plant for this school  
close on 19th inst. Kindly let me know soon as  
possible if any is accepted, as we want to proceed w  
with other work soon as we are sure of our ground,

Yours respectfully,

*S. R. McVitty*

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

PUBLIC ARCHIVES  
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CANADA

7086

# IMPERIAL RADIATOR COMPANY, LIMITED

BRANCHES  
TORONTO AND MONTREAL

HEAD OFFICE AND WORKS  
ST. CATHARINES, ONTARIO



TORONTO, July 11th, 1923.  
ONTARIO

Mr. Gurney Orr,  
Chief Architect,  
Dept. Indian Affairs,  
Booth Bldg., Ottawa.

Dear Sir: RE-SCHOOL FOR DEPARTMENT OF INDIAN  
AFFAIRS, MUNSEY, ONTARIO.

Mr. J. A. MacKenzie, heating contractor  
of St. Thomas, Ontario, and a customer of ours, has  
requested us to take off the materials and give him  
a quotation on the materials necessary for the inst-  
allation of the heating in the above building.

Would it be possible for you to advise us  
where a set of the heating plans would be available  
and also when and where tenders close. If the length  
of time before the closing of the tenders is not  
sufficient to allow you to reply by mail, kindly  
wire the information at our expense.

Yours very truly,

IMPERIAL RADIATOR CO. LTD.

Per.

GRH/AM.

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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CANADA



7-0-5

# GREAT NORTH WESTERN TELEGRAPH COMPANY

T.W. Form 2

EXCLUSIVE CONNECTION WITH WESTERN UNION TELEGRAPH COMPANY

Z. A. LASH, PRESIDENT

GEO. D. PERRY, GENERAL MANAGER

Receiver's No.

Time Filed

Check

SEND the following message subject to the terms printed on the back hereof, which are hereby agreed to.

Ottawa, July 13, 1933.

IMPERIAL RADIATOR COMPANY LIMITED,

- Toronto,

Ont.

RE HEATING SCHOOL MUNCEY TENDERS CLOSE NOON NINETEENTH  
INSTANT - (STOP) - PLANS AND SPECIFICATIONS AT POST OFFICE  
LONDON AND ST-THOMAS AND SCHOOL, MUNCEY .-(STOP)- COPY  
PLANS AND SPECIFICATIONS SENT YOU TODAY.

R. GUERNEY ORR.

CHGE. D.I.A.

CABLE SERVICE TO ALL THE WORLD

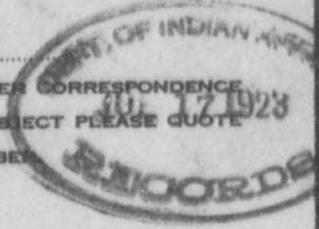
Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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CANADA

153007-5

Post Office,

NO. ....  
IN ANY FURTHER CORRESPONDENCE  
ON THIS SUBJECT PLEASE QUOTE  
ABOVE NUMBER



*Immédiate  
archivée*

London, Canada,

July 16th, 1923.

586903

The Department of Indian Affairs,  
Secretary,  
Ottawa, Canada.

Dear Sir,-

With further reference to tender forms to be used in connection with the submitting of tenders for the new heating system at the Mount Elgin Institute, Muncney, Ontario, would appreciate if you would forward to my address at your earliest convenience six additional copies of the said form as they are urgently required for the use of Contractors tendering in respect to this proposed work.

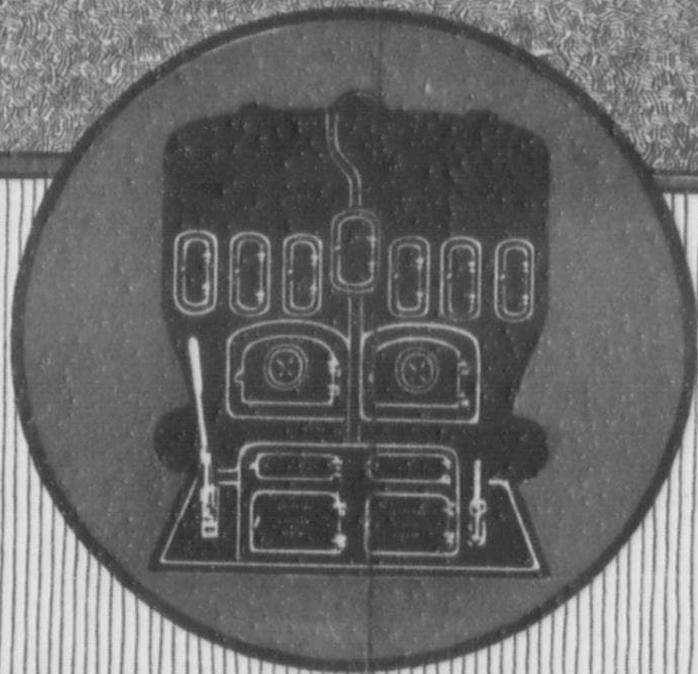
Sincerely yours,

*[Handwritten signature]*  
Postmaster.

*Letter Received  
July - 18 - 1923  
Chas. J. [unclear]  
19th St  
[unclear]*

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

PUBLIC ARCHIVES  
ARCHIVES PUBLIQUES  
CANADA

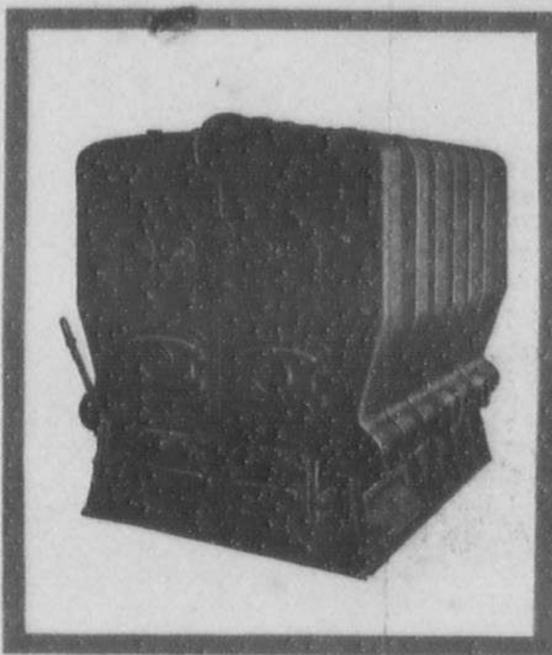


**The Big  
Twin Section  
BURNHAM  
50 Inch Grate**

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

**PUBLIC ARCHIVES  
ARCHIVES PUBLIQUES  
CANADA**

## Burnham



Its looks deceive you. Looks as if it was no larger than the 36 inch. Looks that way, because of its *right proportions*. It is square shouldered and broad chested, just as you would expect of such a husky. The water boiler stands only 80 $\frac{1}{4}$  inches high over all. Is 70 $\frac{1}{4}$  inches wide.

### Its Why

**T**HINGS change—that's why.

Was a time when anything bigger than our big 36 inch sectional in a cast iron boiler was thought to be out of the question.

The only reason it was out of the question, was because the question had not been thought out.

But it has now. And here is the answer.

The big answer.

2

## Boilers



It's a truly remarkable steamer. In test after test with a chimney not exceeding 25 feet in height, it has averaged a surprisingly high evaporative power.

### Its Wherefore

**H**ERE then, is a Cast Iron Twin Section boiler with a 50 inch grate, that is just the thing for low pressure, heavy duty jobs that have always been met with tubulars.

No need to point out to you that they cost less and do more than tubulars.

They do more on less coal.

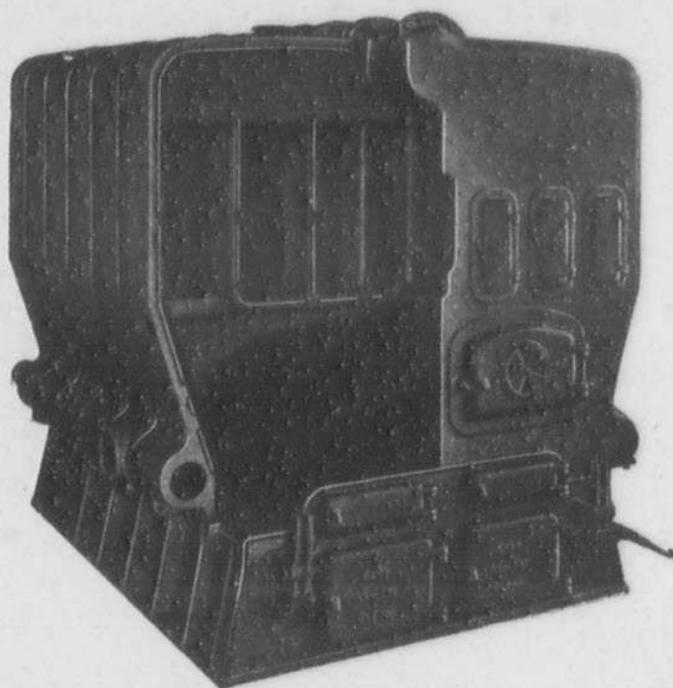
Three men can erect this Twin Section Boiler quickly on account of its sectional construction.

3

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

PUBLIC ARCHIVES  
ARCHIVES PUBLIQUES  
CANADA

*Burnham*



## The Twins Their Ease of Set-up

ONE of the twins, or half sections, doesn't weigh as much as a full section of our regular 30 inch Boiler. You know what that means in ease of handling and set up. Always, two men with a monkey wrench and a screw driver have been able to set up a 30 incher.

One man more is all you need with this Big Twin.

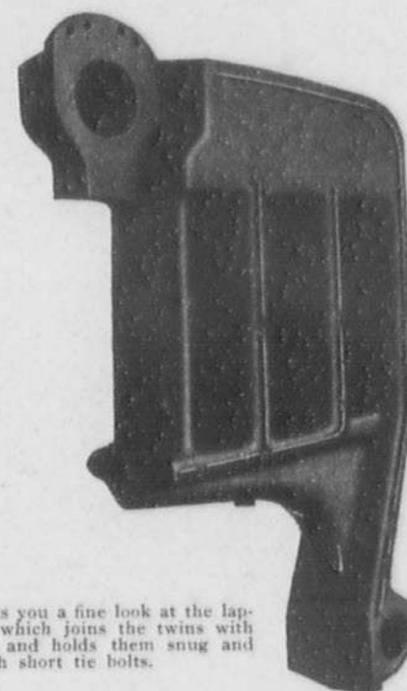
There are no right and lefts to the twins. The one section, by turning, is either a right or left.

4

*Boilers*



Here's one view of a twin, and just above is another view of the same section turned about. This way it can be used for a left hand section and that way for a right hand.



This gives you a fine look at the lap-over-lap which joins the twins with a nipple and holds them snug and tight with short tie bolts.

Think what that means. No chance of mix ups. No getting of a section up on the base, only to find out it's wrong.

You can't go wrong on our Twin Boiler.

The twins are nipple connected at top and sides, and joined at the rear with a 3 inch pipe.

See Page 10.

Erection starts with the front sections. A seal-tight-strip goes over the space between the sections on the front and back, making a finished airtight job.

The sections are twins and *so are the grates*. Although the grate surface is 50 inches wide, no single grate is longer than 24 inches.

Think what that means in ease of handling, ease of set up and ease of replacements.

5

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

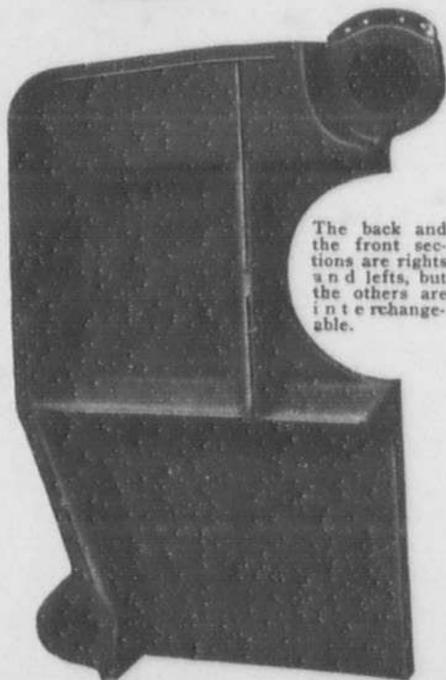
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## Burnham

### The Economy



Here is a twin section turned up on its side so you can see not only its 10 inch width, but also the size of the water-way that dips down into the combustion chamber.



The back and the front sections are right and left, but the others are interchangeable.

MULES, boilers and automobiles are a good bit alike. They each have their balking points. For example; many an auto maker who had a wonderful engine of a certain given cylinder bore, when he increased it, the power developed was not in proportion.

The old law of diminishing ratios started in upsetting things.

There is a point where a boiler can be too large, as well as too small, to be economical. Mr. Burnham has been designing boilers for over 40 years. It's as much a hobby with him as golf is to others. When he started designing the Big Twin, he figured that the closer he stuck to the proved economy features of our single section Boiler, with its side flue openings and three times back and forth fire travel, the better the boiler would be. Some of us wondered if he wasn't making it so big that Old Man Diminishing Ratio might step in. But Mr. Burnham has a boiler sense, that's so sure it's almost uncanny.

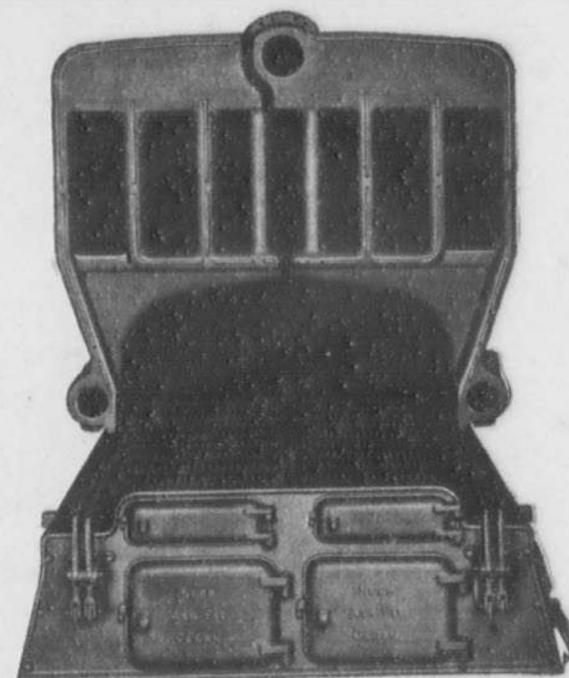
He declared it would steam better than any boiler he had designed.

And it does.

It's tests showed a very high evaporative power per pound of coal burned.

6

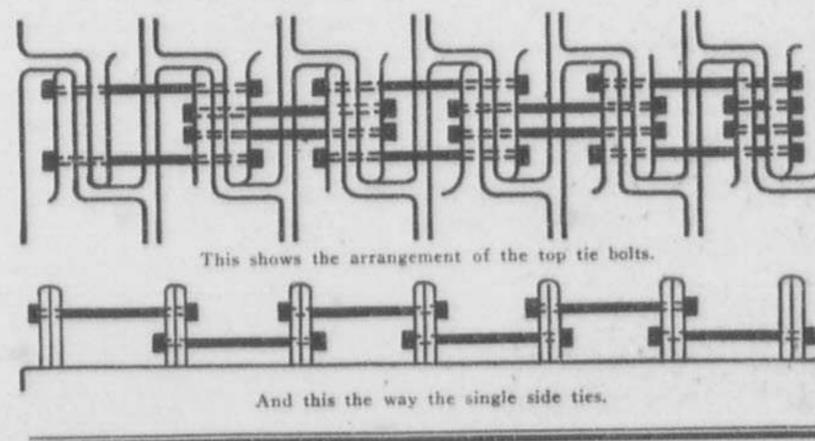
## Boilers



### Short Tie Bolts

Each section is snugged-up to its neighbor by short tie bolts.

There are two at the top and one on each side. Their arrangement is shown in the line sketch below.



7

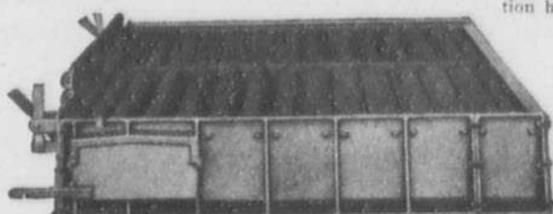
Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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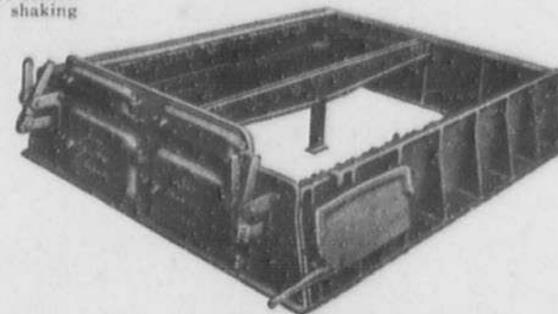
## Burnham

## Boilers

The automatic draft door being on the side, the chain from the operating lever is entirely out of the way of the fire box or ash pit doors. The base sides are cast in single pieces to carry six sections. For additional sections, base sections are added. One section has been added to this base.



Here is the base with all but two grate bars out, showing the centre support, grate lugs and shaking rods.



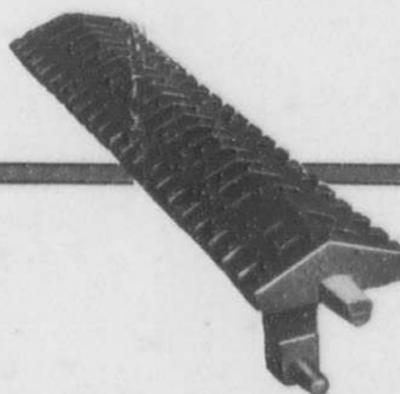
## Short Grates

ONE of the best features in this Twin Section boiler is that each twin has its own twin grates. Take a look at the illustration above, and you see that each grate bar extends only half the width of the boiler. The base divisions show the width of a single section. Each division carries four grates, two on either side of the centre support.

The grates on each side work half at a time, or four shakes for the whole shake down.

Here at last is the solution to warping grate bars on big boilers; also the difficulty in handling one huge bar weighing never less than 100 pounds, making replacing a most difficult task.

These bars weigh not more than forty pounds and are only 24 inches long.



The grate is ridge shaped with a trussing its entire length on both sides. Both the shape and the trussing are a precaution against warping.



The grate centre support is made of two pieces bolted  $\frac{1}{2}$  inch apart at the top, flaring to an inch at the bottom. This flare prevents the ashes from clogging it up and the air space between, prevents any possibility of warping; also makes it as live as any part of the grates. The centre leg amply supports it.

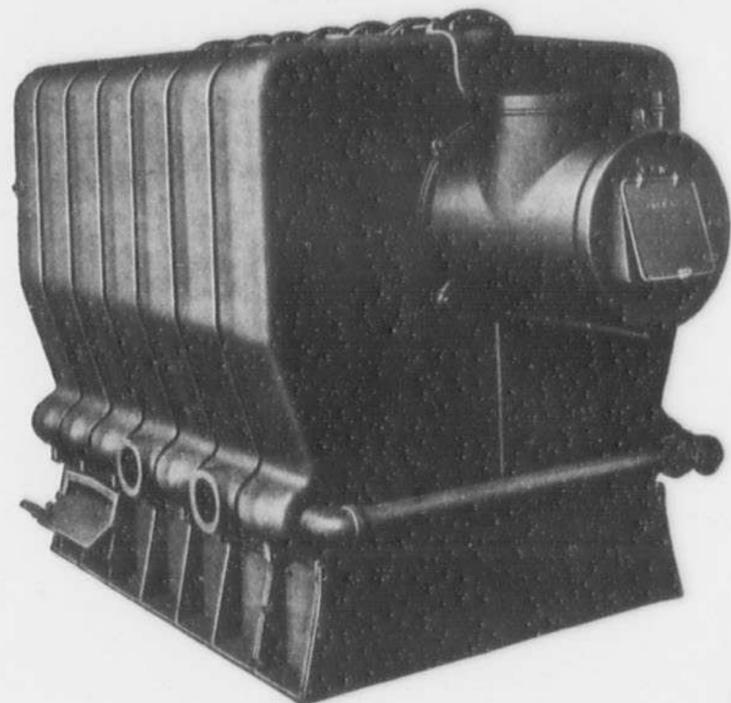


Underneath view of the grate centre leg support showing the separation of the two parts.



The grate bars are only 24 inches long, which is no larger than the average kitchen range.

## Burnham



### The Rear End

ALL operating parts even to the damper handle, being on the front of the boiler, there is nothing on the back but the reversible smoke box and the connection pipe between the section twins, which equalizes the two sides of the boiler.

This pipe is equipped with a draw-off plug.

10

## Boilers

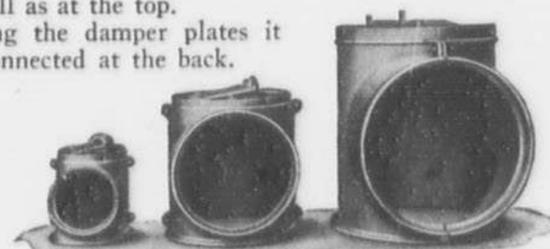


Those who have seen it, say that they didn't quite realize what a whale of a boiler the Twin is, until they stood up beside the smoke box. A fellow could almost crawl inside and take a nap.

### Smoke Box Reversible

By simply loosening four lugs, the smoke box can be swung around so the pipe can be connected at either side as well as at the top.

By shifting the damper plates it can be connected at the back.



Standing these three together tells the story. The left hand one is for our smallest boiler the 18 inch. The middle one is for the big 36 inch which was the largest before the Twin was born, and broke its nose. The right hand one is the Twin's.

11



Here you see the smoke box swung around for a left side connection.



And then swung the other way for a right side.

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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CANADA

## Burnham

### Therefore

HERE, then, is just the boiler for apartment houses, moving picture theatres, schools, churches and public buildings where tubular boilers have been used.

Being made in sections, no special opening has to be left in the building for its installation. It costs considerably less than tubulars. It will do everything a tubular of same capacity will do, and do it on less coal, and with *less* attention.

It has lower upkeep with its total absence of tube replacements and the *long life* of the *short length* twin grates.

In making these flat comparisons against the tubular, we can do it with perfect consistency as we make tubulars. It always has been our policy, however, to sell a man the thing that will best serve him.

For low pressure work from 4,000 up to 20,000 square feet of radiation, the Cast Iron Twin Sectional Boilers, we heartily recommend.

### A Few Installations

- |  |  |
|--|--|
| 1—S-50-10—Hurtig & Seaman's New Theatre, 125th St., N. Y. C. Installed by Stephen Gonda, Tuckahoe, New York. | 2—S-50-6—Manufacturers National Bank, Troy, N. Y. Installed by J. J. Horan & Co.                                     |
| 1—S-50-6—Palace Theatre, Troy, New York. Installed by Patrick Cullina.                                       | 2—S-50-6—J. M. Warren & Company Building, Troy, N. Y. Installed by J. J. Horan & Co.                                 |
| 1—S-50-6—Masonic Temple, Mechanicville, New York. Installed by William Toombs & Son.                         | 1—S-50-6—Church of the Brethren, Windber, Pa. Installed by Johnstown Plumbing & Heating Co.                          |
| 1—S-50-7—Fayetteville School, Fayetteville, Pa. Installed by George H. Sites, Chambersburg, Pa.              | 1—S-50-6—Elim School, Johnstown, Pa. Installed by Cambria Plumbing & Heating Co.                                     |
| 1—S-50-6—Barge Canal Terminal Building, Rochester, N. Y. Installed by Lothar C. Gresens, Rochester, N. Y.    | 1—S-50-9—St. Xavier School, Cresson, Pa. Installed by Ward & McMonagle   |
| 2—S-50-8—Strand Theatre, Troy, New York. Installed by J. J. Horan & Co.                                      | 1—S-50-8—Mercersburg High School Job, Mercersburg, Pa. Installed by Chambersburg Construction Co., Chambersburg, Pa. |
|  | 2—S-50-6—Cohoes Hospital, Cohoes, N. Y. Installed by Scotland & Munro.   |

## Boilers

### A Particularly Interesting Installation Instance

You'll agree that the best proof of what a boiler will do for you, is what it has done for others. Here is a letter from R. W. M. Clarke, Mechanical Engineer, of Troy, New York, which is, to say the least, *convincing*.

The installation was one nine section steam and another six section one for emergency work.

It might be of interest to you to have a non-technical report upon the performance of your 50 Series, 9 Section Low Pressure Steam Heating Boiler, rated at 9775 square foot capacity which I recently specified for the *Battaglia Theatre*, Troy, New York.

The heating proposition is installed as a Dunham Vapor System with indirect mechanical heating for the Auditorium, employing plenum chamber under Auditorium.

Heated air is discharged through Bicalky Mushroom heads located in Auditorium floor, and vitiated air is removed by Bicalky Roof Fan Ventilators.

The indirect heating stack contains 1000 square feet of heating surface through which fresh air is forced by blower. Approximately 5000 square feet of direct cast iron, wall and floor type radiation is used throughout theatre proper and apartments included in this Theatre Building. For the above system I required a free steaming boiler.

This heating plant has been run on two ounces of vapor. The automatic damper regulator has been set at this point and the pressure so maintained. I have run the steam pressure up to 8 pounds in 15 minutes by opening up drafts on the boiler, with full load of direct radiation on.

The performances of the boiler are very satisfactory as to—

- 1—Fuel Consumption.
- 2—Steaming Capacity.
- 3—Delivery of Dry Steam.
- 4—Steady and Copious supply of steam.
- 5—Extreme simplicity of running and controls.

As to quality, design and workmanship the boiler is high class throughout; your grate design is extremely good, making replacement of grate bars, when required, remarkably easy; arrangement of flues and fire travel speak for themselves in performance of boiler.

Castings throughout are true and very heavy.

The six section, same type boiler installed at this plant has not been required as yet, although we have had below zero weather.

When the indirect stack is used excessively, possibly the services of this other boiler may be required.

Trusting that the above facts may be of interest to you, we are,

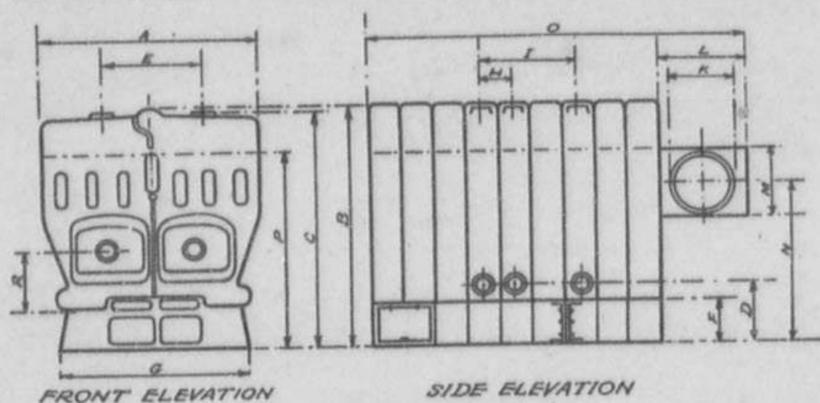
Yours sincerely,

(Signed) R. W. M. CLARKE.

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

PUBLIC ARCHIVES  
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CANADA

# Burnham



## Measurements

Number Water	Number Steam	Length of Boiler Measurement O	Letters	Letters
W-50-6	S-50-6	91"	A 70 1/4"	H 10 1/4"
W-50-7	S-50-7	101 1/4"	B 80 1/4"	I 31 1/2"
W-50-8	S-50-8	112"	C 77 1/2"	K 22"
W-50-9	S-50-9	122 1/4"	D 20 3/4"	L 28"
W-50-10	S-50-10	133"	E 19"	M 22 1/4"
W-50-11	S-50-11	143 1/4"	F 15"	N 53 1/2"
W-50-12	S-50-12	154"	G 60 3/4"	P 65 1/2"
				R 17"

## Ratings and List Prices

### STEAM BOILERS

Number	Size of Grate in Inches	Grate Area Sq. Ft.	Average Size of Fire Pot	No. & Size of Outlets & Inlets	No. & Size of Safety Valve	Rating Sq. Ft.	List Price
S-50-6	50x55.5	19.27	55x55.5	3-5"	3"	6,250	\$8,425.00
S-50-7	50x66	22.92	55x66	3-5"	3 1/2"	7,425	10,015.00
S-50-8	50x76.5	26.56	55x76.5	4-5"	3 1/2"	8,600	11,853.00
S-50-9	50x87	30.20	55x87	4-5"	3 1/2" & 2"	9,775	13,076.00
S-50-10	50x97.5	33.85	55x97.5	4-5"	3 1/2" & 2"	10,950	14,405.00
S-50-11	50x108	37.5	55x108	5-5"	3 1/2" & 3"	12,125	15,897.00
S-50-12	50x118.5	41.14	55x118.5	5-5"	3 1/2" & 3"	13,300	17,525.00

### WATER BOILERS

W-50-6	50x55.5	19.27	55x55.5	4-5"	.....	10,500	\$996.00
W-50-7	50x66	22.92	55x66	4-5"	.....	12,250	1,146.40
W-50-8	50x76.5	26.56	55x76.5	5-5"	.....	14,200	1,176.80
W-50-9	50x87	30.20	55x87	5-5"	.....	16,150	1,347.20
W-50-10	50x97.5	33.85	55x97.5	5-5"	.....	18,100	1,497.60
W-50-11	50x108	37.5	55x108	6-5"	.....	20,050	1,648.00
W-50-12	50x118.5	41.14	55x118.5	6-5"	.....	22,000	1,798.40

### TELEGRAPH CODE

Steam Boilers		Water Boilers		QUANTITY OF ASBESTOS REQUIRED TO COVER BOILER ONE INCH THICK			
				WATER		STEAM	
				Number of Boiler	No. of Pounds	Number of Boiler	No. of Pounds
S-50-6	Dalmatian	W-50-6	Desmodium	W-50-6	800	S-50-6	800
7	Danaea	7	Diosma	W-50-7	900	S-50-7	900
8	Darwinia	8	Dillenia	W-50-8	1,000	S-50-8	1,000
9	Darnell	9	Draba	W-50-9	1,100	S-50-9	1,100
10	Davallia	10	Drymoda	W-50-10	1,200	S-50-10	1,200
11	Deltoid	11	Duranta	W-50-11	1,300	S-50-11	1,300
12	Desmanthus	12	Dysodia	W-50-12	1,400	S-50-12	1,400

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# Boilers

## Terms and Shipping Information

**THE BOILER PIT** To obtain the best results it is advisable, whenever possible, to deepen the Ash Pit, either by making a raised foundation under the boiler or by excavating and making a brick or concrete floor under the boiler. This will permit of better draft and consequently improve combustion. Such a sub-pit will also prevent, to a considerable extent, any chance of the grate bars burning out, due to the accumulation of ashes.

**GUARANTEE** These boilers are guaranteed only to the extent of furnishing new castings for any found defective in manufacture. They are conservatively rated according to accepted standards, but on account of the varying conditions surrounding their installation, we do not guarantee our boiler except as specified above.

**SHIPMENT** Boilers are shipped from factory. We deliver everything in perfect condition to the freight companies. Our customers must look to the carriers to recover any loss or damage to castings. Do not pay the freight until you have examined the goods and checked up quantities. If any damage or shortage, insist on Agent writing it on your receipt.

**REPAIRS** When ordering repair parts it is important that you give us the Serial Number of the boiler. This will avoid delay in filling the order and will insure the correct pattern being sent. The Serial Number can be found on a small Brass Plate riveted to the Fire Door.

**SECTION CEMENT** Sufficient asbestos cement is furnished with all boilers to make them gas tight. Cement must be placed between the sections wherever beads or ridges show. It is very important that this be done, as otherwise the gases will "short circuit," and will not have the proper fire travel.

**BOILER COVERING** All boilers should be covered with asbestos cement at least 1 1/2 inches thick, which will increase both their efficiency and economy.

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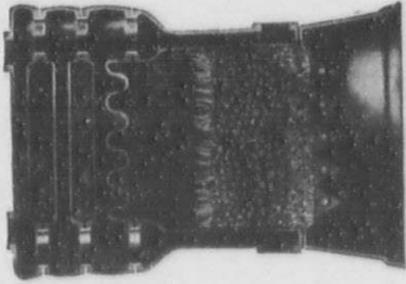
*Burnham Boilers*

LORD & BURNHAM CO., LTD.  
OF CANADA

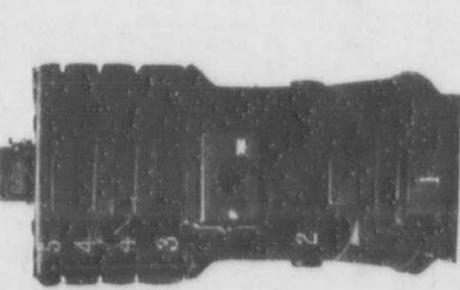
FACTORY ST. CATHARINES, ONT. SALES OFFICE HARBOR COMM. BLDG.  
TORONTO, ONT.

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

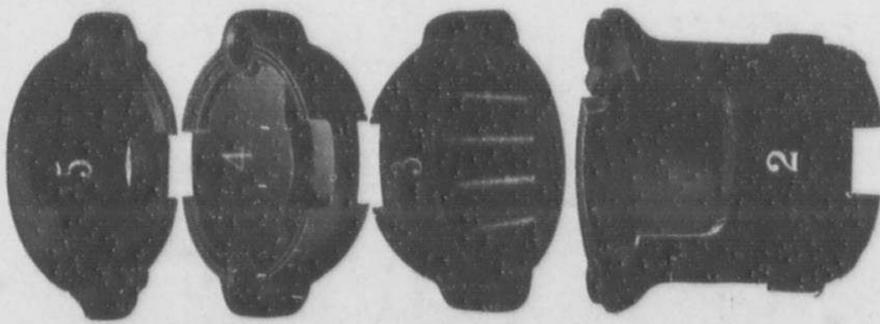
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That fluted crown sheet and back and forth fire travel acts like a regular hydraulic press, the way it squeezes the heat out of the coal.

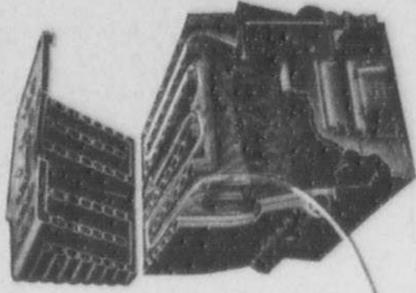


Round water boiler with sections numbered as a location guide for those below.

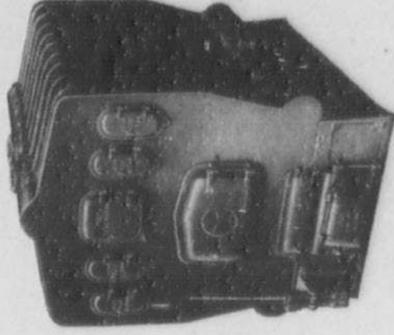


2. Separate section fire pot.  
3. Separate crown sheet.  
4. Interchangeable intermediate section.  
5. Top or dome.

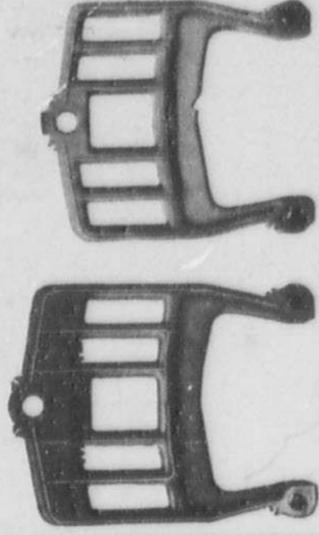
*Note that fire travel is 3 times back and forth, on both sides of boiler*



By lengthening the fire travel we shortened the coal bill. It reminds one of the old saying — "the longest way round is the shortest way home."



The return water from the radiators enters the bottom of the boiler at the hottest point and then circulates through the boiler before passing out the flow pipes at the top. Any number of flow connections can be made—ode for each section between the front and back if you wish.



Heights are deceiving. The best way to see how high the steam dome really is; just compare these water and steam boiler sections.

## The Square

Here's a square sectional boiler that's built on the square. After making some eye opening economy claims, it can look you square in the face and prove up every one of them. Its sections are set side-by-side, every pair having its own short tie bolts. It has a wonderful digestion. If a any boiler can get the nourishment out of fuel, it can.

It has a fire travel that put down and added up equals a distance of close to six times the length of the boiler. Think of it, six times—and yet its draft is plenty lively. If we said all that can be said of it, you would declare we were stretching it. When you own one, you'll wonder we said so little.

## The Round

A wall is built stone on stone. This boiler is built section on section. One of its differences from other round boilers, is its fire pot. It's a section all by itself, just as is the crown sheet.

It means ease in handling. Ease in set up. Lowered repair costs. Note the deep flutes or corrugations on the crown. No need to tell you how they multiply the direct fire surface, by pretty close to twice over.

A glance at the general interior shows up the flutes plainly, as well as the fire travelling back and forth from one side to the other. To call it a boiler is only half right. Its real name is The Last Ounce Heat Extractor.

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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**Big Fire  
Doors**

**Deep  
Ash Pits**

**It's The Long Fire Travel  
That Makes Its  
Short Coal Bill**

**Lord & Burnham Co.**

Limited of Canada

*Manufacturers of Burnham Boilers*

Main Sales Office:

Harbor Commission Building, TORONTO  
Factory, ST. CATHARINES, ONT.

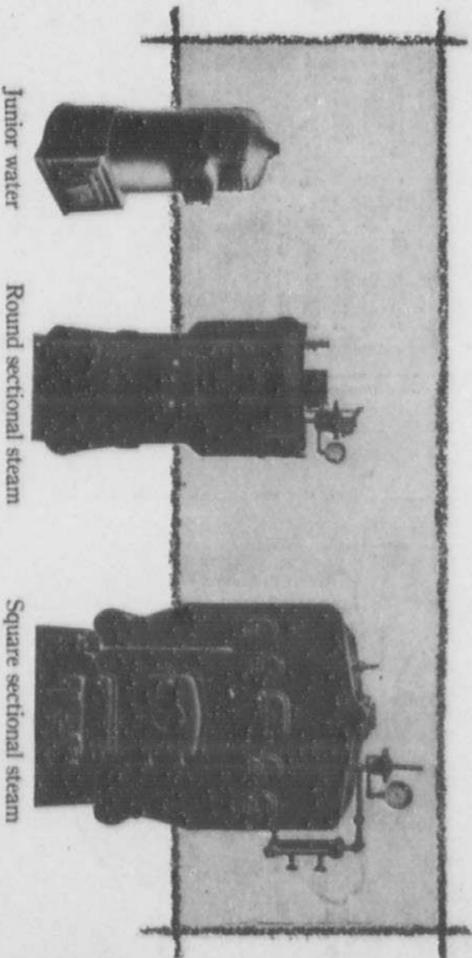


**Boilers**

Both  
Round  
And Square



Clinker doors are none of your skimpy little affairs. They are full grown.



Junior water

Round sectional steam

Square sectional steam

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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CANADA**

MR. HEATING CONTRACTOR, get acquainted with the FARRHERN ATMOSPHERIC STEAM HEATING SYSTEM.

It will standardize your heating business, making it more easy and simple to handle; it will relieve you of the come-backs that invariably follow from the use of light and complicated equipment such as is used in Vacuum Systems, consequently your heating business will become more profitable and one Farrhern System installed will get you many more.

Send us the plans for your next heating prospect and submit a proposal for Farrhern Heat. We will thank you, and your client will thank you, when he comes to use it.

Send in a sketch of the next trouble job of bad circulation or one-pipe system that comes to you. THE FARRHERN WAY is the simple, effective way to put them right.

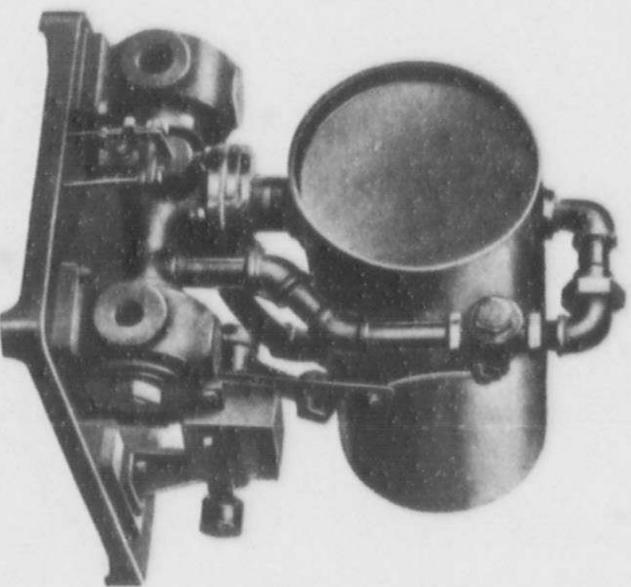
For Homes, Offices, Schools, Industrial Plants, Apartments, etc.

We give an engineering service with our sales, so that you may make our organization part of your staff while installing Farrhern equipment.

J. E. FARRELL, Sales Engineer,  
Room 304, Manning Chambers, Toronto

## FARRHERN CONDENSATOR

Especially designed for service on Farrhern and other low pressure heating systems

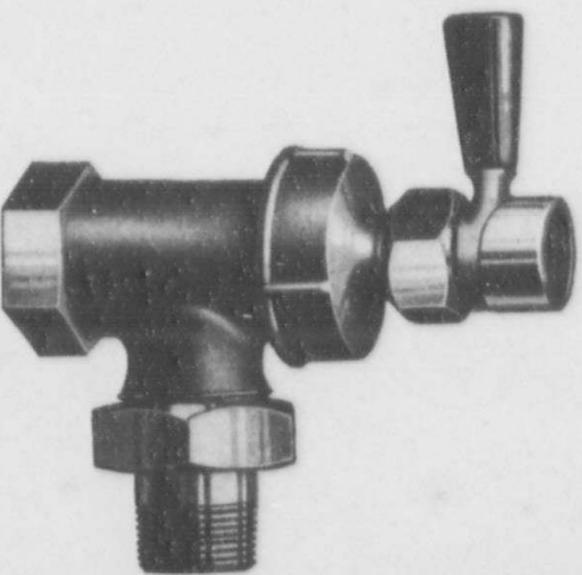


This efficient operating machine discharges the air from heating systems and returns the condensation quickly to the boiler working from one pound pressure up. It thus accelerates the circulation throughout the whole system.

It will improve and rectify bad circulation and stop hammering in old systems.

**Write us for Information**

## FARRHERN ATMOSPHERIC STEAM HEATING



FARRHERN LIMITABLE  
GRADUATING VALVE

It controls and apportions the necessary quantity of Steam supplied to each Radiator, whether close to the Boiler or a distance from it.

**FARRHERN STEAM SERVICE**

304 Manning Chambers

Office Phone: ADELDAIDE 1566

Nights or Holidays, PARKDALE 7823

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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**Farrfhern Atmospheric Steam Heating Systems.** *The important points to be considered in the heating of buildings are as follows:*

*The first cost of equipment and installing.*

*Simplicity of the whole system.*

*Durability of Equipment—thus lessening cost of maintenance.*

*Operating cost.*

*Ease of handling and controlling same.*

*Flexibility for either continuous or intermittent operation and adaptability for varying pressures.*

*The low cost of installing a FARRHERN ATMOSPHERIC STEAM HEATING SYSTEM is accounted for owing to the fact that there are no automatic air valves on the radiators or return mains to leak foul air and dirty water; there are no return traps on the Radiators, no vacuum pumps, no complicated, expensive devices; consequently a Farrfhern System can be installed at a much lower cost than others.*

*Simplicity in the FARRHERN HEATING SYSTEMS is obtained by simply following natural laws. We know that given an opportunity, steam will circulate at atmospheric or higher pressures equally and positively throughout the radiation in any size of a building or manufacturing plant without the use of vacuum pumps or complicated controlling devices. We eliminate all these, along with the troublesome radiator traps, scale pockets, etc. Hence the FARRHERN SYSTEM is most simple.*

*The only controlling feature in large systems are the Farrfhern graduating Radiator Valve, Farrfhern Control Fittings, and the Farrfhern Condensator and Air Eliminator.*

*The cost of operating Farrfhern Atmospheric Heating System is brought below others on account of there being no electric power bills required for propelling pumps, and as the circulation is rapid the condensation is returned to the boiler at a very high temperature—thereby economizing on fuel account; there being no light, frail parts to get out of order, oil and packing so frequently required by steam and electric pumps,*

therefore the operating costs of the Farrfhern System is low.

*Ease of handling and controlling Farrfhern Heating is accomplished by the scientific graduation established for supplying each heating unit throughout every system at the time of installation, consequently automatic control is established for all time that the system may be in use; there can be no trouble from freezing, as with thermo radiator traps and no trouble can arise from high pressure. It is as near fool proof as it is possible to design a system of heating.*

*Flexibility is assured because of the fact that all Farrfhern appliances are made of heavy and durable material, so that for intermittent service or varying high pressures all parts of the system will continue to function properly.*

*Safety is also assured against the water leaving the Boiler, which too frequently happens with low pressure steam-heating boilers causing cracked sections or damaged tubes.*

*The Farrfhern Condensator stands guard at all times keeping the water line steady and safe.*

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**THE CANADIAN MOREHEAD COMPANY, LIMITED**

MANUFACTURERS  
TILTING TYPE RETURN NON RETURN  
VACUUM AND CONDENSER  
STEAM TRAPS



J. E. FARRELL  
DIRECTOR OF SALES  
304 MANNING CHAMBERS  
TORONTO  
HEAD OFFICE AND WORKS  
WOODSTOCK, ONTARIO

Toronto, July 16, 1923.



Postmaster T. C. Duncan,  
London, Ont.

Dear Sir:

Being advised that you are installing a new steam heating system in the Mount Elgin Institute, we wish to bring to your notice the adaptability of the Farrfhern Heating Systems to institutions of this type.

Enclosed you will find a folder which explains the advantages claimed for these systems.

We are experts in this line, and can give you an efficient, closed condensation return system which will mean efficient, economical heating with a continual saving on the fuel bill.

If there is any higher pressure steam service, such as laundries, kitchens, etc., our Condensator will handle this work also, without the use of pumps of any description.

May we have the opportunity of quoting you on a Farrfhern System.

Yours truly,

*Chas Penner*  
Sales Engineer.

CGM/AM.

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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# The Canadian Surety Company



W. H. Hall,  
General Manager

Head Office, Toronto, Canada



BRANCH OFFICE FOR  
PROVINCE OF ONTARIO  
15 WELLINGTON ST. EAST  
F. G. HAYNES, MANAGER  
W. F. SPRY, ASST. MANAGER  
A. A. BAIN, SECRETARY  
PHONE MAIN 4157

TORONTO, ONT., July 16, 1923.

T. C. Duncan, Esq.,  
Postmaster,  
London, Ont.

Dear Sir:- Re Tenders Wanted Alts. to institution,  
Muncey, Ont.

Will you kindly advise us as to whether it is your intention to include in the specifications for the above, that the contractor furnish Bid, Performance, and/or Maintenance Bonds of a Corporate Surety Company, and if so in what percentage of the contract price.

A stamped and addressed envelope is enclosed for reply which you might undernote.

Thanking you in advance for this information which will be greatly appreciated by

Yours faithfully,

Branch Manager.

FGH/OC.

Bid Bond required for.....% of Contract price  
Performance Bond required for.....% of Contract price  
Maintenance " " ".....years.

.....  
signature.

Automobile, Burglary, Guarantee, Plate Glass Insurance

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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155007-5

*Immanuel  
Architect*

Post Office,

London, Canada,

July 17th,

NO. ....  
IN ANY FURTHER CORRESPONDENCE  
ON THIS SUBJECT PLEASE QUOTE  
ABOVE NUMBER



Enclosures.

The Department of Indian Affairs,  
The Secretary,  
Ottawa, Ontario.

587150

Dear Sir,-

Enclosed please find three communications from several Companies relating to the proposed installation of a new heating system at the Mount Elgin Institute, Muncney, Ontario.

I may state that same have been duly acknowledged to the senders with the added information that they have been forwarded to you for your consideration.

Yours truly,

Postmaster.

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Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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# TENDER FORM

DEPARTMENT OF INDIAN AFFAIRS  
OTTAWA, CANADA

Building Mount Elgin Institute.  
Location Muncey. Ontario.

I, (we) Anguish and Whitfield,  
the undersigned, hereby offer to the Deputy Superintendent General of Indian Affairs, to furnish all the necessary tools, implements, materials and labour, and to execute and complete in a satisfactory and workmanlike manner, all the works required in completing the aforesaid building, according to drawings, specifications and form of contract exhibited to me (us), and prepared under instructions of the Deputy Superintendent General of Indian Affairs, for the sum named as under.

Tender for the whole of the work as shown on drawings and described in the specifications (Amount of tender to be written) Eight thousand, one hundred and seventy-four  
dollars (8174.00)  
(8174.00)

I, (we); herewith agree to complete the work within a period of \_\_\_\_\_ months from the date of notification of acceptance of tender, and hold myself (ourselves) ready to enter into a contract for the due execution of the work.

(a) I, (we) herewith enclose an accepted cheque for \$ 817.40, on a chartered bank, payable to the order of the Deputy Superintendent General of Indian Affairs, equal to ten (10) per cent of the amount of the tender, as per terms of the advertisement, and specifications for this work.

(b) Attached hereto is a letter from the Manager of the Bank of \_\_\_\_\_ certifying that War Bonds to the value of \_\_\_\_\_, have been deposited in the Bank of \_\_\_\_\_ subject to the order of the Deputy Superintendent General, Department of Indian Affairs at Ottawa, Ont.

War Loan Bonds of the Dominion will be accepted as security, or War Bonds and cheque, if required to make up an odd amount.

Envelopes containing this tender are to be endorsed "TENDER FOR the installing of  
a Steam System of Heating at the Mount Elgin Inst., Muncey, Ont." and addressed to the Deputy Superintendent General of Indian Affairs at Ottawa, Ont.

"TENDER MUST BE IN HANDS OF DEPUTY SUPERINTENDENT GENERAL BY 12 O'CLOCK NOON OF DATE FIXED FOR THEIR RECEPTION. CARE SHOULD THEREFORE BE TAKEN TO MAIL SAME IN PROPER TIME."

The signatures of persons tendering must be in their respective handwritings.

In the case of firms, the signature, post office address and occupation of each member of the firm must be given.

SIGNATURES, OCCUPATIONS AND POST OFFICE ADDRESS OF PERSONS TENDERING:

*Anguish*  
*Whitfield*  
I. J. August } Heating Engineers,  
S. F. Whitfield }  
46 Calbarne St., Brantford.

Dated at Brantford this 16th day of July, 1923.

NOTE.—The security cheque or War Bonds will be forfeited if the person or persons tendering refuse to enter into a contract when called upon to do so or fail to complete the work contracted for. The Department does not bind itself to accept the lowest or any tender. No conditional tender which is not in accordance with the above will be considered.

NOTE.—Amount of deposit security should be indicated in space provided above.

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ANGUISH & WHITFIELD  
Sanitary and Heating Engineers  
46 COLBORNE ST.  
BRANTFORD, ONTARIO

*Received July 18/23  
9. A.M.  
A.G. MacIntyre*



Mr. Duncan C. Scott,  
Deputy Supt. General of Indian Affairs,  
Department of Indian Affairs,  
Ottawa, Canada.

"Order for the installing of a Steam System of Heating at the  
Mount Elgin Institute, Muncey, Ont."

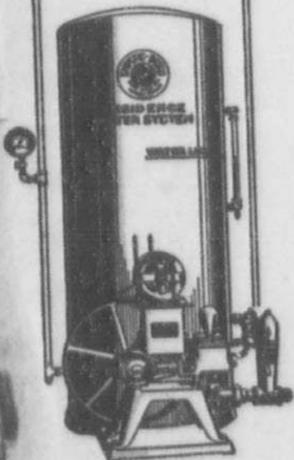
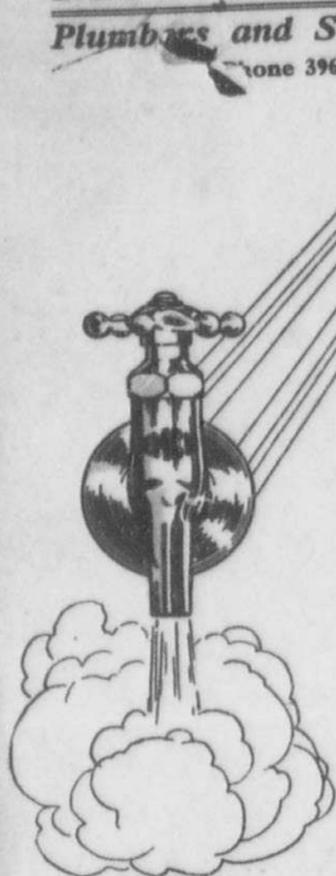
Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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# MILNE & Co.

Plumbers and Steamfitters

Phone 3966



**"Water by Wire!"**

346 Talbot Street  
LONDON, ONT.

July 18, 1923.

Honourable Minister of Indian Affairs,  
OTTAWA, ONT.

Dear Sir:-

Please find enclosed marked cheque for  
Ten Percent Tender. Also Tender for installing new Heating System  
in Mt. Elgin Institute, Muncy, Ont.

The Post Master in London did not have  
enough printed Tender Forms to give us, so we are  
mailing Tender upon typewritten form.

Trusting that this shall be satisfactory,  
we remain,

Sincerely yours,

MILNE & COMPANY

Per

*R. A. Milne*

*Handwritten note: Money received*

Indian Affairs. (RG 10, Volume 6206, file 468-5, part 4)

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