

THE "ROBB" HOT WATER HEATER.

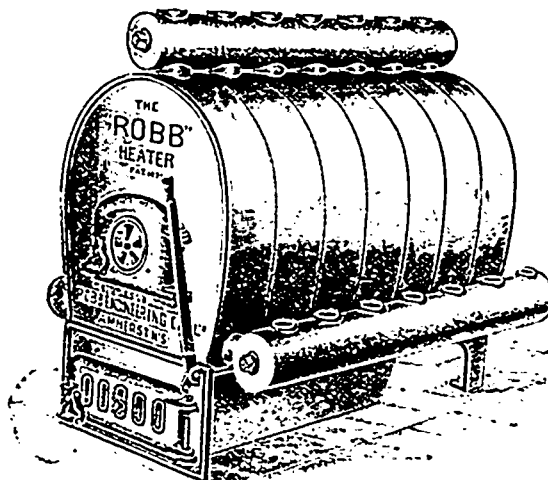
The heater here illustrated was designed and patented by Mr. D. W. Robb, and is manufactured by the Robb Engineering Co., of Amherst, N.S. A number have been placed in buildings in different parts of the Maritime Provinces during the past two years, and have given highly satisfactory results.

It consists of a number of upright cast iron sections of the general shape of a horseshoe, with circulating pipes on each side of the crown. The height is much less than in most other types, permitting of its use in very low cellars, and as it may be shipped in sections it is easily taken into any building through the doors or windows. It is provided with rocking grates extending about half the length of the heater, which are easily operated by a lever. The hot gases are directed upwards by a fire bridge at the rear of the grate, and then downwards by a shield which prevents them escaping too quickly out through the smoke pipe. The part of the outer rim of each section that is exposed to the fire is curved, increasing the heating surface very largely.

On account of the shape of the heating surfaces and their direct exposure to the flames, soot cannot collect. This allows of the use of soft coal as well as hard without cleaning out, and keeps the heater always at

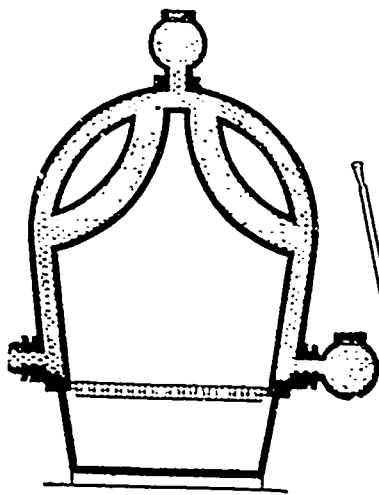
its highest efficiency. The flame being in one large body admits of more perfect combustion, or greater heat than is obtained where it is divided into thin sheets before the gases are fully ignited.

The water circulates from the return headers at the bottom to the flow header at the top in an almost vertical direction. The movement is therefore very rapid, giving much quicker heating than is usually secured

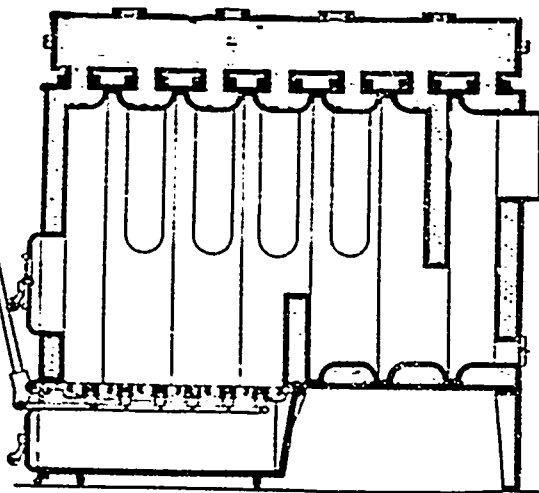


The Robb Heater.

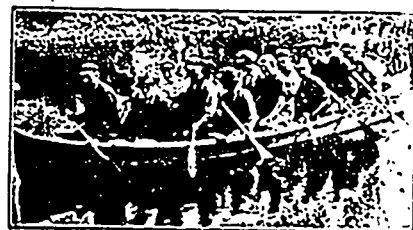
with hot water. This rapid circulation also assists largely in the economy shown by this heater, as it is necessary for the best results that the water should escape as fast as heated, allowing colder water to take its place.



Sectional View, Cross-wise.



Sectional View, Lengthwise.



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