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From "Metal Worker, Plumber and Steam Fitter," Apr. 15, 1911.

### ADVANTAGES OF BRICK-SET FURNACES

Have the furnace men of the United States been so led astray by the demand for cheapness that they have absolutely forgotten that it is much better to have some of the things done right, even though a doubt is cast upon the value of the heating system? There are many furnace men throughout the country who smile when the brick furnace chamber is mentioned and do not seem to have any idea that it has advantages which are by no means approached in the galvanized iron furnace, even though people are now spending a great deal of money to cover the galvanized iron casing of portable furnaces with insulating material to keep the heat in. Even this does not bring to the owner of the plant the advantages he can get from having the heating surface enclosed within a brick chamber. Invariably there is much more space between the walls of the furnace than there is found in the average portable furnace. This prevents overheating the air and a large volume of air is heated because the brick walls of the chamber become quite hot and this heat is retained to be absorbed by the air passing through the chamber. After the fire has become very low and the heating surface itself is at a lower temperature than the walls. Furnaces of this character can be found in the older sections of the U. S. that have been in use for many years. The author of this article is a strong advocate of the present day portable furnace and who has had no experience whatever with the old brick encased furnace, might do well to look over some of its advantages. I have pointed out that they have been in use for a great many years demonstrating that they had advantages which would tax the imagination of the average furnace man of today to meet. That they had large air chambers and provided a large volume of air at a low temperature, which for heating the building chamber after the fire died down it was possible for the heat in the walls of the brick chamber to keep the house at a somewhat comfortable temperature until the fire could be given to the fire to bring the house to a comfortable temperature. The principal advantage in the eyes of the present day buyer is the cost, but it is quite possible that the additional investment required and the interest that the money would bring is not being liked as great as the additional cost of running some of the popular furnaces of today. The brick encased furnace has by no means gone out of existence. In many places men who have been in the furnace business for a long time and are familiar with its merits recommend it to their customers and install it in their houses. I believe that some advantage could be gained by the men who are not familiar with what was done in the early days looking into the history of the furnace and making some time for themselves of the reasons underlying the action of the early leaders of the furnace trade.

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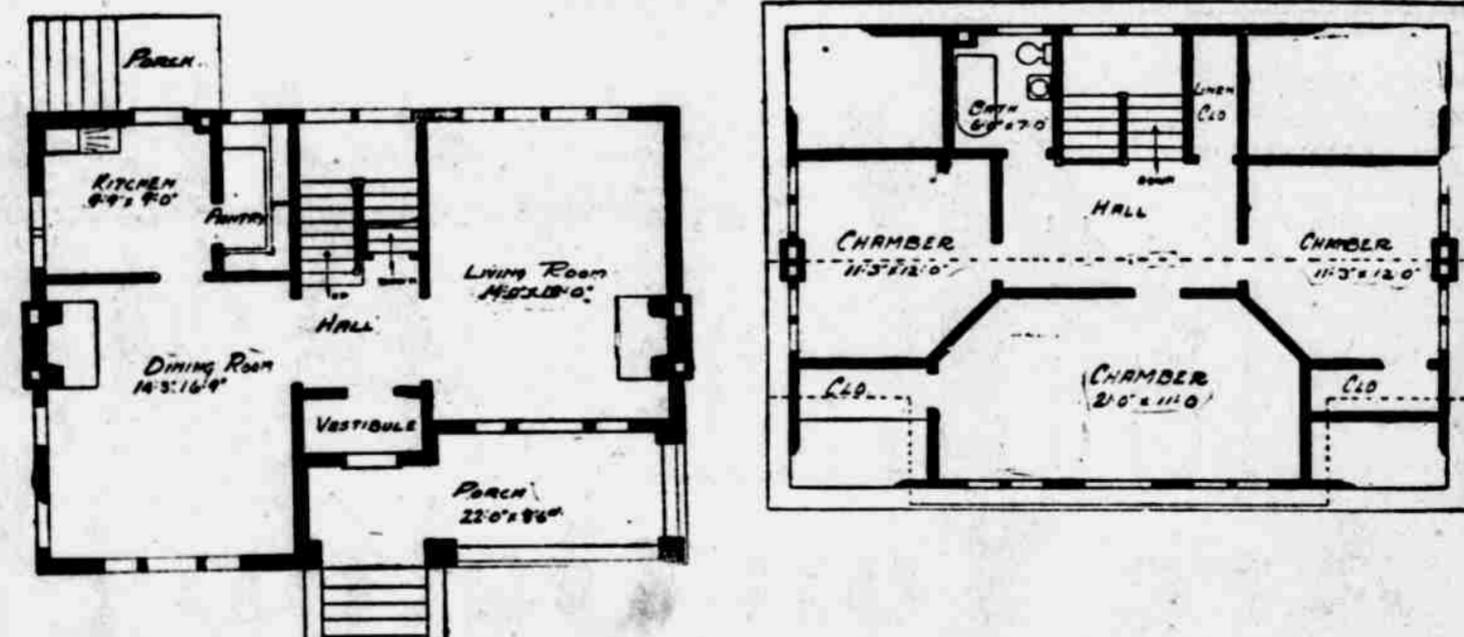
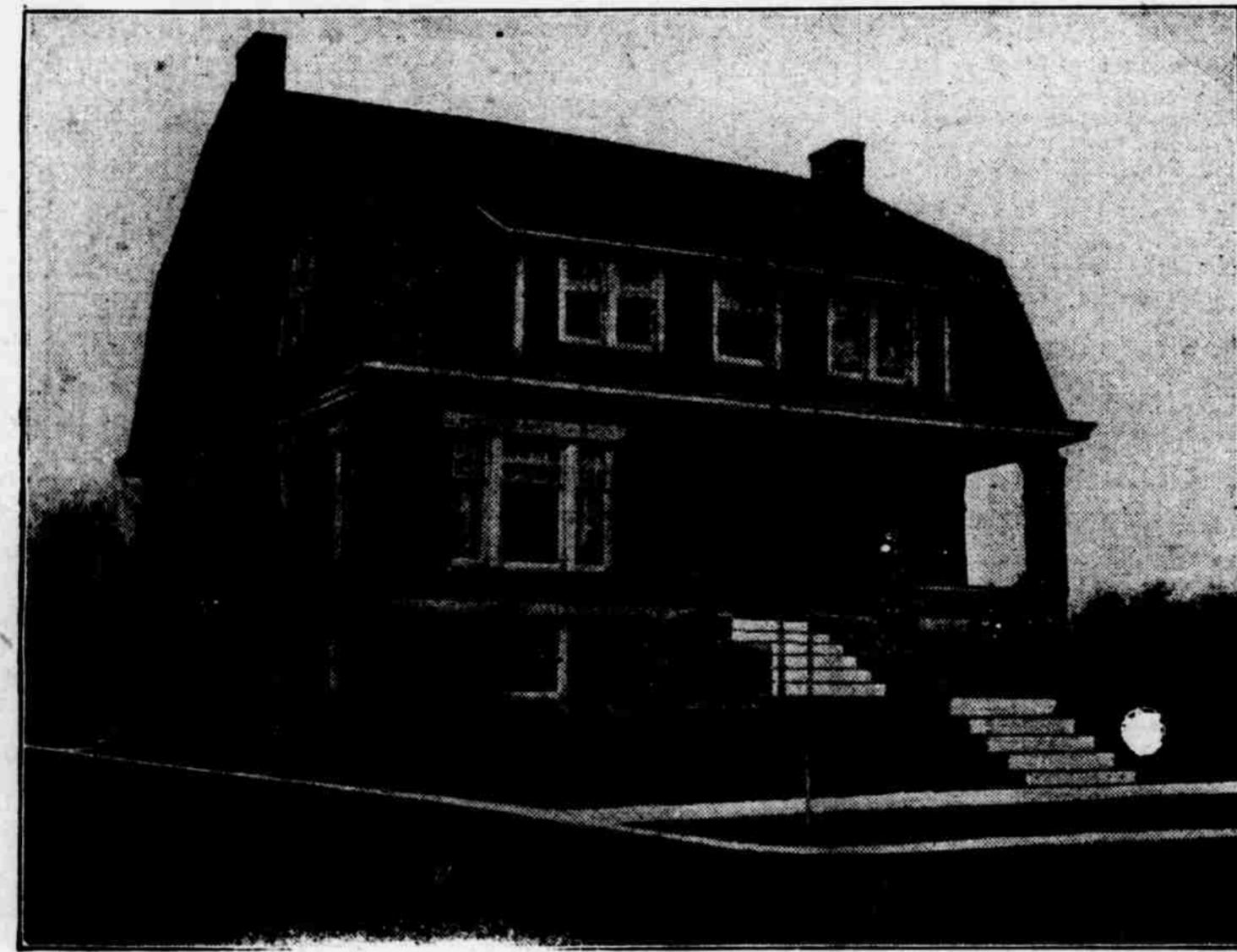
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An attractive 2 story basement house 38 feet x 28 feet, first story brick with stone trimming, second story either stucco or siding could be made very attractive by the use of shingles. Has two large mantels in first story and should be finished in hardwood except kitchen and pantry which should be in yellow pine. Second floor should be birch, white enamel finish. Estimated cost \$2,800 to \$3,200.

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