

pearance of a home-made job. It is understood that he has applied for a patent on his system.

He simply digs out the floor of the fireplace to the depth of about a foot. It is not necessary to even brick this up at the bottom. A rectangular, welded sheetiron tank, (a hollow square) of about 4 ins. cross section is made to fit the hole in the floor, and is mounted flush with the original floor of the fireplace. In the rear of the fireplace is set up an ordinary steam radiator of small size, which is connected to the piping of the hot water heating system. T's are inserted in the pipes from the radiator and connections made to the hollow tank. The tank thus provides heating surface to supplement that of the fireplace radiator. Finally a large pipe "fender" is mounted in front of the radiator, which prevents wood being thrown in and banged against the radiator. This fender also is connected to the tank, giving still more heating surface. Altogether, he gets about 25 sq. ft. of heating surface.

That's all there is to it. The rest is the same as any hot water heating system. Build a fire in the pit, and you have as nice and cheerful a fireplace fire as before. The flames rise and heat the radiator and tank effectively and the radiator, set clear at the back, is not unsightly. Ordinarily it is covered with black deposit and is hardly visible.

He added a refinement by taking out the front brick work and building a recess in which slide a metal screen and a pair of sheet iron doors. Thus the fireplace may be screened, or, by shutting the metal doors, can be closed off at night so that the fire merely smolders and keeps a low, even heat all night.

**RODENT REPELLENT PROTECTS COURSE TREES**

Castle Rock, Minn.—Castle Chemical Co., makers of Sulphonol, report that this sulphur emulsion preparation is proving invaluable to nursery and seed companies in the northwest, who find that rabbits and other rodents will not touch or gnaw at trees and shrubs that have been treated with it.

As the makers point out, rabbits and other rodents destroy many trees every winter. Many preparations have been introduced to check this damage, but they are too easily washed off. Screens are too expensive. Oils are often injurious to the tree.

Sulphonol mixes with water, is economical, easy to apply, effective and lasting.

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