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# NOISELESS STEAM-HEATING SYSTEM

## AT LAST—A NOISELESS STEAM-HEATING SYSTEM!

THOSE who are in the habit of smiling every Sunday over Hy Mayer's humorous page in the *New York Times* entitled "Impressions of the Passing Show," may recall a cartoon which appeared one chilly fall and which extracted a sympathetic chuckle from every dweller of an apartment house.

The drawing represented a scene in the basement, where the janitor was seated before a series of upright pipes resembling those of an organ. With a hammer in each hand, he was industriously tapping first one pipe, then another, in rapid succession. The sounds, of course, rose through the pipes up to the radiators in the various apartments above, and one's imagination could picture the joy of the happy but deluded tenants, who took this welcome melody to mean that the furnace at last was lighted, and their sufferings were about to cease!

While the thumpings and rumblings of a steam radiator fill the ears of shivering tenants with joyful anticipation of that long wanted heat, the sounds themselves are hardly of a musical nature. In fact, apart from their symbolic significance, they are decidedly unpleasant. When you are dozing quietly in your armchair over a soothing novel, you are awakened by this unkind disturber of the peace. At the hour when you are endeavoring to put the baby to sleep, the wretched thing tries its hand at a discordant lullaby which proves even more disastrous than your own. Or it sputters its way into the conversation just as you and your guests have reached the pleasant stage of coffee and cigarettes.

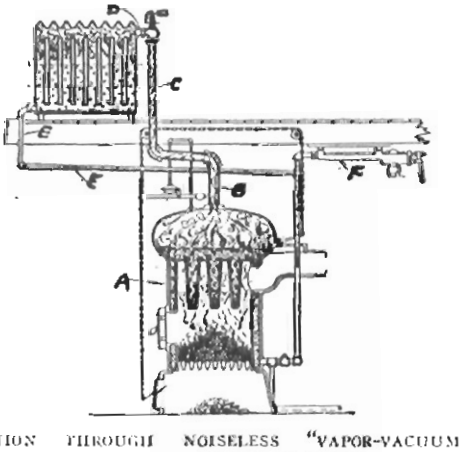
You want to choke it, but you can't. You give the handle a vindictive twist—and scald your fingers in a puff of steam; but the more you lose your temper, the more the miserable affair seems to chortle in its unholy glee. So you end by retreating in discomforture and trying to console yourself with the reflection that after all, it *does* keep you warm—sometimes.

We have a steam radiator in our own family, and can therefore speak with feeling. Imagine our joy, however, when we learned that a *noiseless* steam heating system had at last been invented! Do you wonder that we hasten to carry the good news to others, and at the risk of seeming technical, to print this plain but comforting section of the new Silent One's anatomy?

Its *modus operandi* is quite simple, if one glances at the drawings and is not afraid of a few mechanical terms. The fire is started. The water in the boiler A absorbs heat. Vapor rises from the water into the main pipe B, through the branch pipe C and inlet D into the radiator. The air is forced ahead of the vapor through the radiator, pipe E and controller F from which it is ejected. But the vapor is prevented from escaping by the expansion of the brass tube of the controller under the action of the heat.

The system is now filled with hot vapor, and as the heat is transmitted to the air in the room, the vapor condenses, creating a vacuum inside the radiator which constantly sucks up more hot vapor from the boiler. When the fire is slackened, the vapor cools, contracts, and vacuum is created. And all this happens without friction and without noise.

Nor is this peaceful disposition the only virtue of the new system. It is temperate in its appetite for fuel, and does not eat one out of house and home. It responds with promptness and sympathy to one's requests for heat in zero weather, and is equally ready to moderate its energies when a rising mercury suggests. It asks for very little attention, and being of a modest and retiring nature is satisfied with fairly small radiators which do not dominate the entire room. In short, it is just the sort of radiator for which we have always longed, and we are much obliged to the inventor for thinking of it.




SECTION THROUGH NOISELESS "VAPOR-VACUUM" HEATING SYSTEM—OF INTEREST TO BUILDERS.