CHAPTER VIII.

Registers for Heating and Ventilating Ducts

Styles of Registers

Registers can be obtained, finished in black japan, white japan, porcelain enamel, or bronzed in gold, silver, copper or bronze. They can also be obtained in solid brass or bronze metal highly polished, or nickel, oxidized copper and brass, antique copper and brass, gun metal, etc., and also in metal which has been electroplated with copper, brass, bronze or nickel.

When registers are to be connected direct to the brick flues, they are fastened by means of reverse beveled cast iron wall frames, shown in Fig. 130,

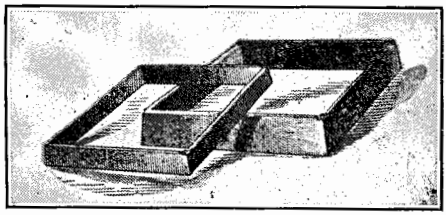

Fig. 130—Beveled Wall Frames

which furnish the best means for securely holding the register in place. They are built in the wall as shown in Fig. 131, the widest side of the frame, a, facing the inside of the flue. The register is attached to the frame by means of screws, which can be removed or

replaced without any damage to the wall. The frames can be obtained to suit any size register.

Fig. 132 shows a register having a plain lattice ventilating face, without any shut-off valves or louvres

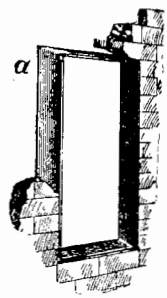

Fig. 131—The Wall Frame in Position

in the back of same. It is usually placed in the ventilator openings.

Wire grilles or register faces, two styles of which are shown in Fig. 133, are sometimes used.

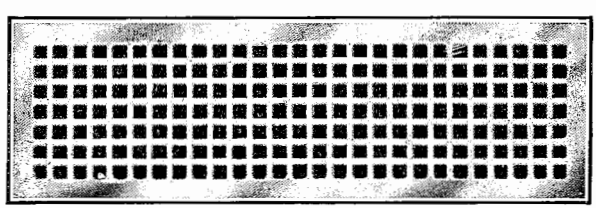

Fig. 132—Plain Lattice Ventilating Face

When a register face is required in a room whose wall is curved as in a bay window, registers having concave faces are used.

Knowing the radius of the curve of the wall, this dimension is sent to the factory and the faces are then

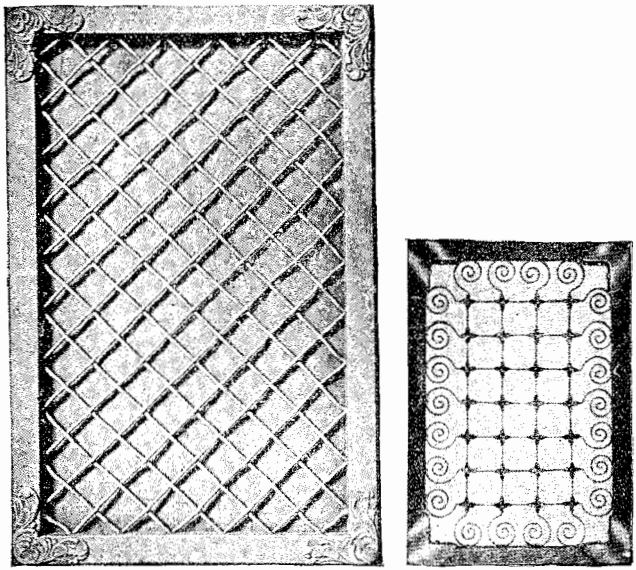

Fig. 133—Two Styles of Register

made to the required curve, similar to that shown in Fig. 134, which is called a concave register face.

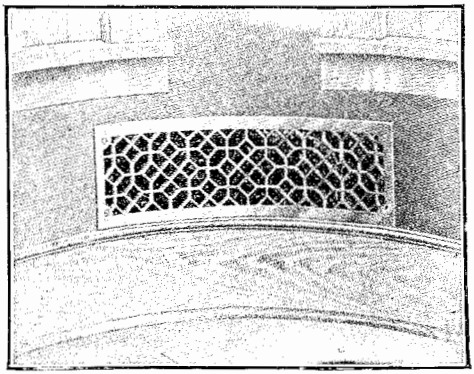

Fig. 134—Concave Register Face

Round ventilating plates similar to that in Fig. 135 can be obtained in any diameter.

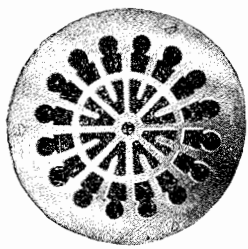

Fig. 135—Round Ventilating Plate

A convex baseboard ventilating plate or register is shown in Fig. 136. It is a plate that projects outward from the face of the wall, as shown in the illustration.

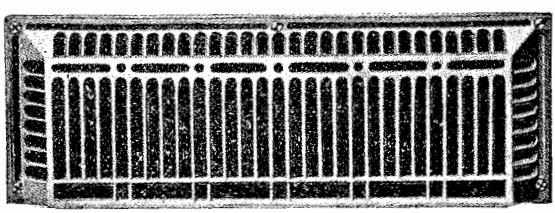

Fig. 136—Convex Baseboard Ventilating Plate

The style of registers placed in the warm air inlets is that having shut-off valves or louvres in the back, for opening or closing. They are operated by means of the quadrant X, Fig. 137, more fully illustrated in Fig. 138, which shows one end of the inside of the register and the operating mechanism A indicating the quadrant.

Floor registers are usually set in a cast iron floor border, as shown in Fig. 139.

When a round register is to be set in a floor, the

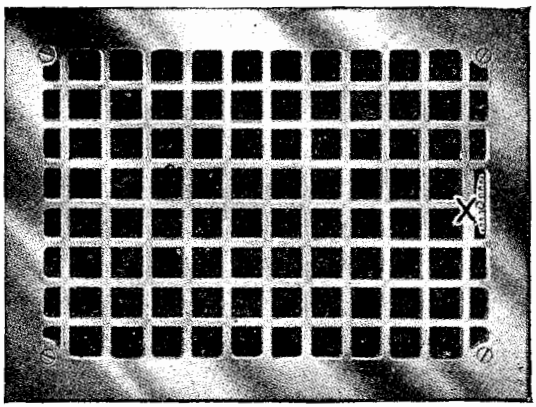

Fig. 137—A Heat Register

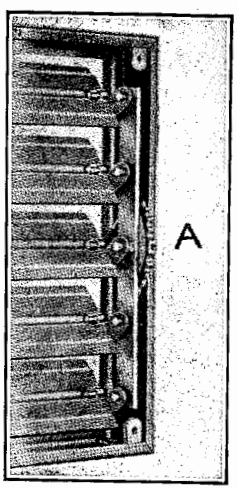

Fig. 138—Showing Operation of Shut-Off Valves

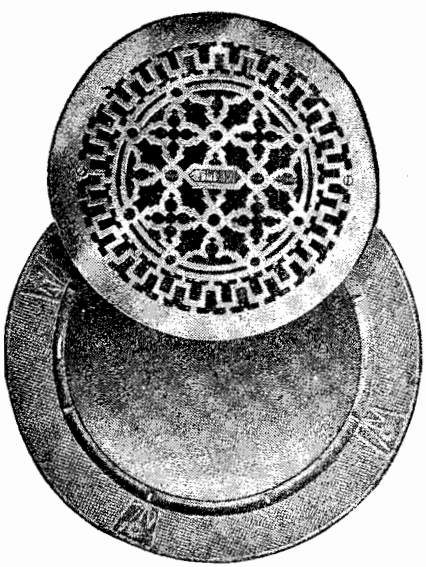

Fig. 140—Round Register with Cast Iron Floor Border

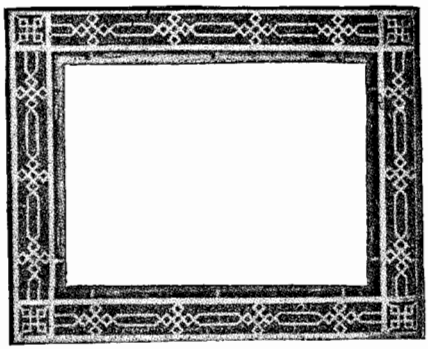

Fig. 139—Cast Iron Floor Border

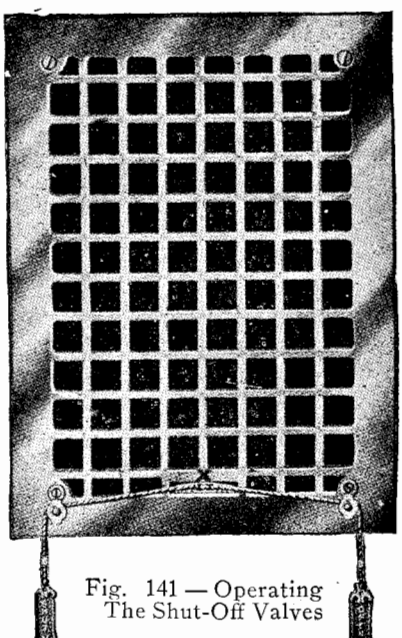

Fig. 141 — Operating The Shut-Off Valves

wood work must be prepared by the framer to receive the circular floor border shown in Fig. 140, into which the register is placed.

When heat registers are placed near the ceiling, two cords or chains of the required length are fastened to the quadrant X, in Fig. 141, having indicator handles marked "Open" and "Shut," by which the register can be opened or closed from the floor. These cords or chains pass over small brass pulleys as shown.