

create a current through the ejecting cowls, in the absence of all of which it becomes indispensable to provide some means for creating the required draught through the foul air flues and the consequent abstraction of vitiated air from the apartments.

To obtain the desired effect a fanner may be used worked by water or other power, or it may be produced by the means of heat from a small fire in the foot of the ventilating shaft or from a group of gas burners, according as one process or the other is more or less expensive or dangerous. In very large apartments, with comparatively few inmates, it would be good to introduce a separate flue and register by which the still pure air might be returned to the air chamber of the furnace to receive an accession of heat and then be returned into the apartment. The exhausting process would be carried still further by placing near the floor of any apartment a register and tube by which the cold air and carbonic acid gases might be taken into the fire box and thence passed through the flues to the chimney.

