

The vent is made by means of a tube leading up from the drain to the top of the house or other convenient and safe spot. These last words "safe spot" were not duly taken into consideration in the English town of Croydon. In that town a bye-law was passed, compelling householders to run their rain-pipes into the sewers, and this effort at drain ventilation was followed by fearful mortality rates. It was soon discovered that the rain pipes, opening, as they did, under the cornices of the houses, conducted the sewer gas straight into the open windows. This was rectified, and the beneficial results of the original intention were soon apparent. A similar caution has to be observed in respect to bringing the pipes too close to chimnies, down which there is sometimes a powerful current, when not used for their original object of smoke conductors. Then, too, cistern water has been poisoned by a too close proximity of sewer ventilators. In this connection I may refer to the mischief that is often insidiously going on from the over-flow pipes of cisterns, whether untrapped, or whether they are forced or unsealed by suction or evaporation in the ways I have before mentioned. Water saved in tanks for drinking purposes, has been thus made the vehicle of disease. But to return to my ventilating tubes, for it is often better to have two, and we may thus have a diluting process, the tubes taking turns in acting as inlet and outlet shafts, admitting pure air as well as expelling foul. The two small tubes can often be used with less derangement of artistic effect, than one large one. It is almost useless to remark that the single tube sometimes acts as an inlet also, and I may here say that all ordinary calculations as to inlet and outlet shafts more frequently "gang alee" in sewer ventilation than in ordinary ventilation, owing to the drains being close, and to other modifying circumstances. Hence we must put every shaft in such a position that it can do no harm. It is an improvement to place a charcoal tray in the top of the ventilating tube. In passing now towards our street sewer I would merely refer for a moment to the plans of attempting