

"In spite of the disadvantages mentioned above, there is a wonderful improvement in the air of the stable compared with previous conditions. Before we put in our present system, the air was close, clammy, and foul smelling. Now, it feels dry and healthful, though on the cool side. A somewhat cold, dry air, however, is much preferable to the damp, stifling warm air encountered in so many stables. Our cattle, including small calves, appear to suffer no inconvenience from a temperature of  $40^{\circ}$  because the air is dry. The same animals in a temperature of  $55^{\circ}$  to  $60^{\circ}$ , where the air is damp and foul, would suffer much more discomfort, to say nothing of the danger to health.

"There is no doubt that the system of ventilation is a success, even in its incomplete form and when the outlets are properly arranged the results will be eminently satisfactory."

### VENTILATION OF HOUSES.

For the same cubic space, the number of occupants is usually much less in a house than in a stable. Nor does the contamination of the air in houses, for reasons not necessary to mention, proceed so rapidly as in stables. In addition, doors and windows are usually more plentiful, and chimneys, stoves, furnaces, and fire places aid materially in keeping up a ventilation without effort or extra cost to the occupants. To keep houses tolerably well ventilated should therefore be comparatively easy. And yet most houses are badly ventilated even in summer, and still worse in winter. The reasons for this state of things are manifold: First, many people have a horror of fresh air in the house, it being often associated in the mind with dampness and drafts; secondly, open windows and doors provide a way in for flies, and when it comes to a choice between two evils, the immaculate house-keeper prefers to keep her house closed up tight rather than admit flies; thirdly, in winter, changing the air of a room frequently means more fuel, since the incoming air has to be warmed. In spite, however, of this combination of circumstances and prejudices operating against a thorough and perfect ventilation, a partial and irregular ventilation is

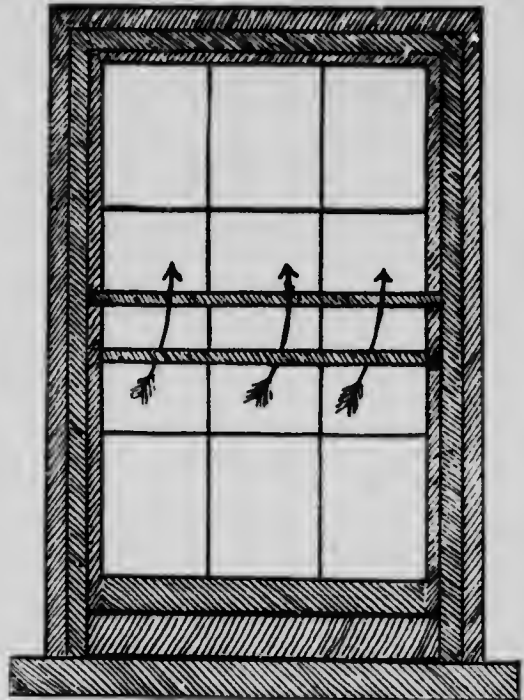


Fig. 12. House ventilation, showing lower sash raised and a board under.