curing house, where temperature may be controlled in hot weather. It is as follows :—

"It is proposed to lead a considerable number of small air pipes several times through a very large box or bin, which is to be packed full of some light substance—moss, for instance—through which air could easily find its way. Water from above will be suffered to drip all over the top of this moss, and will trickle through it to the bottom of the bin. Through the moss, from the bottom upward, a current of air will be forced, and thus produce rapid evaporation. This will cool the air pipes, and they will cool the air which passes through them. To force a current through the pipes, and and to force another through the moss, a very large but light pair of bellows will be used, worked by a sort of clock arrangement, in which the immediate motive power will be a heavy weight. A horse will, with ten or fifteen minutes' heavy pull—once a day or once a week, according to the heat of the weather—wind this clock affair. It has a pendulum, and can be started or stopped at pleasure, and, by altering the length of the pendulum, will run fast or slow, according to the heat. The cold air which the air pipes furnish will be let through cheap wooden pipes to the various rooms of the house, always near the ceiling, and be turned on or off like the hot air of ordinary furnaces. The doors and windows will be kept closed in the hottest weather as carefully as in the coldest. There will be no flies, mosquitoes, or dust. The blinds will be open and the rooms light. The air will be as dry as that outside, and the temperature will be between 60° and 70°, as may be desired. Such a machine will not cost much, and the projector thinks that the extra work it will enable him to do in the hottest weather will soon repay him for the outlay."

Mechanical powers like the one for working the bellows have been exhibited at some of our recent New York State Fairs, applied to the common dash churn. This mechanical movement consists in a system of gearing driven by a heavy weight attached to a stout rope, which is wound about the cylinder of the machine.

The *Scientific American*, speaking of the merits of this machine, says :—

"Mechanical powers of this character have not heretofore been very acceptable for domestic purposes—some requiring too heavy weights,