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(54) IMPROVEMENTS IN OR RELATING TO THE TREATMENT OF COLUMNS OF RUBBISH CHUTES

(71) We, FRANCOIS TOURNADE a French citizen of 197, Rue du Faubourg Saint-Denis, 75010 Paris, France and CLAUDE BORDET a French citizen of 144, Rue Roger Salengro, 93700 Drancy, France, do hereby declare the invention for which we pray that a Patent may be granted to us, and the method by which it is to be performed, to be particularly described in and by the following statement: —

The invention relates to apparatus permitting disinfecting, deodorising and possibly the removal of insects, in a continuous manner, of and from columns of the kind used in rubbish chutes laundry chutes and ventilation shafts.

The aforementioned columns, and especially those of rubbish chutes are, in general, the seat of an intense development of disagreeable odours, of micro-organisms pathogenic or not, and also sometimes insects.

The intermittent cleaning and disinfecting of these columns, each month, or often at much longer intervals, is clearly insufficient from a hygenic point of view and the necessity of a continuous treatment of these columns is obvious.

The apparatus according to the invention allows the realisation of this continuous treatment, by the evaporation of a solution of an active product and the circulation of vapours of this active product through the interior of the column to be treated.

According to the present invention there is provided apparatus for the continuous deodorising, disinfecting and possible removal of inserts of and from columns of rubbish chutes, laundry chutes and ventilation shafts, the apparatus comprising a horizontally-disposed conduit connectible into the wall of the column to be treated, a fan arranged in the conduit at the end remote from the column, and a wick constantly fed with a volatile active liquid extending laterally into the conduit between the fan and column, the fan serving to direct air from the exterior to the interior of the column thereby causing evaporation of the volatile liquid by passing across the wick and entraining vapours into the column.

Thus, if the fan operates continuously, there is, to the interior of the column to be treated, a continuous circulation of active vapours, that is to say vapours of a disinfecting, deodorising liquid and possibly appropriate pesticide.

An embodiment of the apparatus according to the invention is illustrated in the accompanying drawing.

The horizontal conduit 1 which penetrates the wall of the column 2 houses at its end remote from the column 2 a motor driven fan 3, and has screwed into a threaded orifice 4 formed in its side a receptacle 5 containing the active volatile liquid in which is immersed a wick 6. The wick 6 extends laterally into the conduit 1 between the fan 3 and the column 1. The end of the conduit 1 introduced into the column is closed by a grille 7 to avoid, particularly in the case of rubbish chutes, the entry of debris into the conduit 1.

When the receptacle 5 is empty, it is unscrewed from orifice 4 and replaced by another receptacle 5 full of active liquid.

As the volatile active liquid there are cited as examples, essentials oils such as pine, thyme, lemon and castor oil, disinfectants such as orthocresol, dichlorophene and hexachlorophene. However, one may use any liquid or solution sufficiently volatile or a mixture of disinfectant, deodorising an insecticidal products.

The apparatus according to the invention is installed in general at the bottom of columns in which the circulation of air

is from bottom to top. However, if it must be installed in a column in which the circulation of air is forced from top to bottom, it will be manifest that the apparatus will be located in the upper part of the column.

WHAT WE CLAIM IS:—

1. Apparatus for the continuous deodorising, disinfecting and possible removal of insects of and from columns of rubbish chutes, laundry chutes and vetilation shafts, the apparatus comprising a horizontally-disposed conduit connectible into the wall of the column to be treated, a fan arranged in the conduit at the end remote from the column, and a wick constantly fed with a volatile active liquid extending laterally into the conduit between the fan and column, the fan serving to direct air from the exterior to the interior of the column thereby causing evaporation of the volatile liquid by passing across the wick and entraining vapours into the column.

2. Apparatus according to claim 1, in which the wick is immersed in a volatile active liquid contained in a receptacle removably secured on the exterior of the conduit at an orifice in the wall of the conduit.

3. Apparatus according to claim 1 or 2, in which the volatile liquid is a solution of a deodorising, disinfecting and insecticidal product or a mixture of products.

4. Apparatus according to any one of claims 1 to 3, in which the volatile active liquid is selected from pine, thyme, lemon and castor oil, and orthocresol, dichlorophene and hexachlorophene.

5. Apparatus for the continuous deodorising, disinfecting and possible removal of insects of and from columns of rubbish chutes, laundry chutes and ventilation shafts, substantially as hereinbefore described with reference to the accompanying drawing.

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1567631 COMPLETE SPECIFICATION
1 SHEET *This drawing is a reproduction of the Original on a reduced scale*

