

FIG. 1

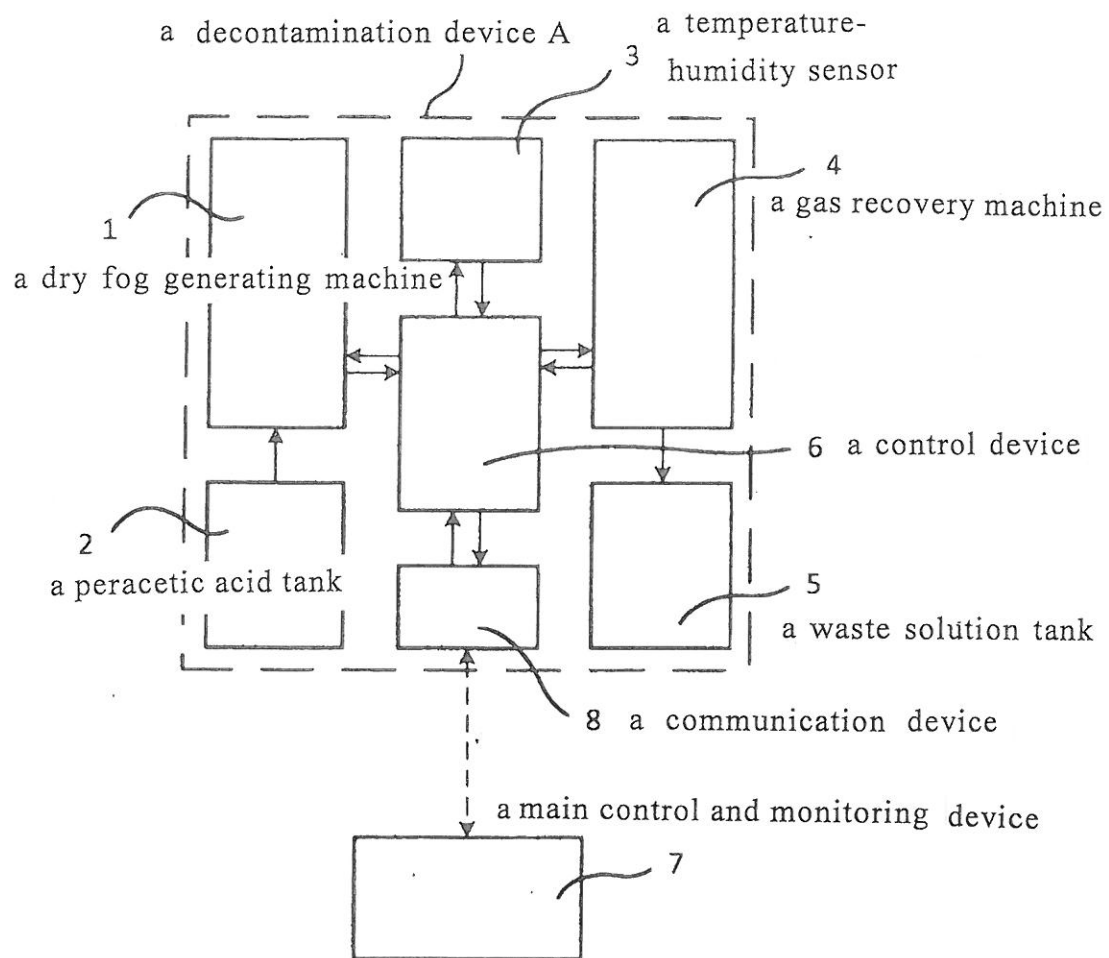


Fig.2

(a)

	Procedure
(a)	Set a reference temperature (T_1) and a reference humidity (H_1), and determine an effective decontamination period (t_1) at a set decontamination humidity (H) by measuring it a plurality of times.
(b)	Obtain an amount of medicament to be sprayed based on the saturated vapor amount $a(T_1)$ at the reference temperature (T_1) and the ratio between the reference humidity (H_1) and the extent to which the humidity can be increased.
(c)	Obtain an amount of medicament to be sprayed based on the saturated vapor amount $a(T_0)$ at an initial temperature (T_0) and the ratio between an initial humidity (H_0) and the extent to which the humidity can be increased.
(d)	Obtain the ratio between the amount of medicament at the reference temperature and humidity and the amount of medicament at the initial temperature and humidity based on the ratio between (b) and (c).
(e)	Humidify with the medicament until the humidity increases from the initial temperature and humidity of (c) to a set decontamination humidity (H), and determine an effective decontamination period by measuring it a plurality of times.
(f)	Multiply the effective decontamination period (t_1) from (a) by the ratio of medicament from (d).
(g)	Obtain a temperature coefficient (α) and a humidity coefficient (β) in consideration of weights for temperature and humidity so that $(f) \approx (e)$ and multiply them by respective coefficients.
(h)	Add time (t_2) for compensating an error of the hygrometer sensor to (g).
(i)	An arbitrary decontamination period (t_d) can be obtained by inputting the initial temperature (T_0) and the initial humidity (H_0) into the following equation: $t_d = \alpha \times a(T_1) / a(T_0) \times \beta \times H_1 / (H - H_0) \times t_1 + t_2$

(b)

Decontamination period	(t_d)
Effective decontamination period at reference temperature and humidity	(t_1)
Time for compensating error of temperature-humidity sensor	(t_2)
Initial temperature in decontamination area	(T_0)
Initial humidity in decontamination area	(H_0)
Reference temperature	(T_1)
Reference humidity	(H_1)
Set decontamination humidity	(H)
Saturated vapor amount at initial temperature	$a(T_0)$
Saturated vapor amount at reference temperature	$a(T_1)$
Temperature coefficient	(α)
Humidity coefficient	(β)

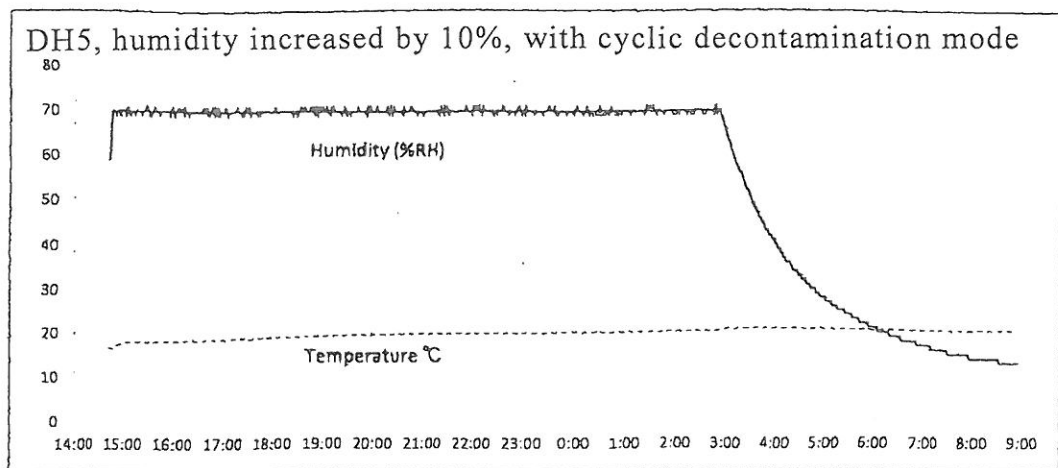


FIG. 4

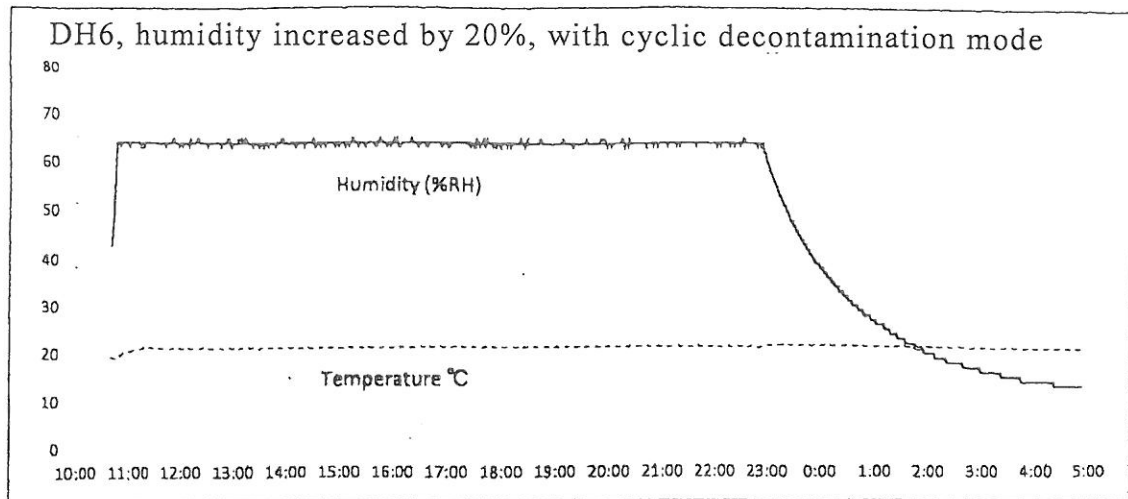


FIG. 5

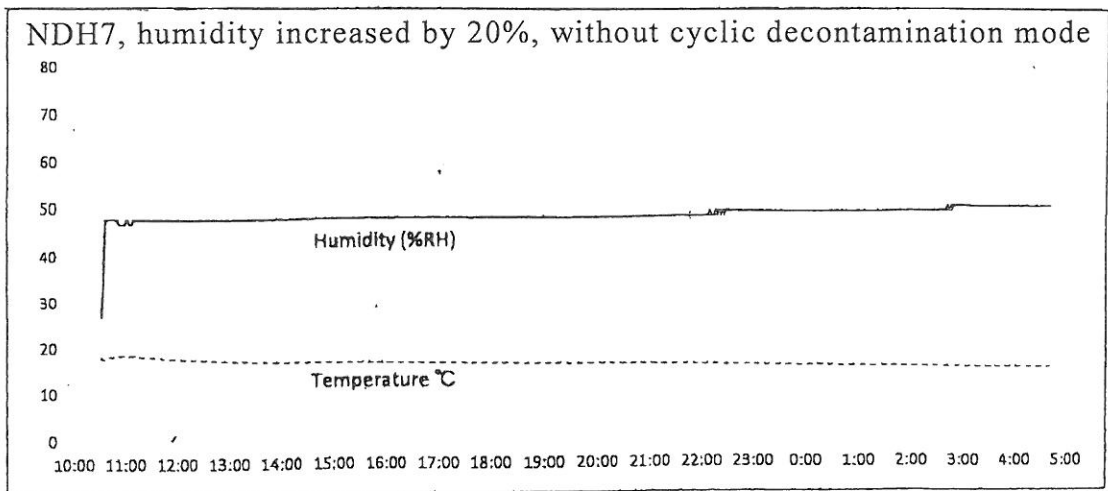
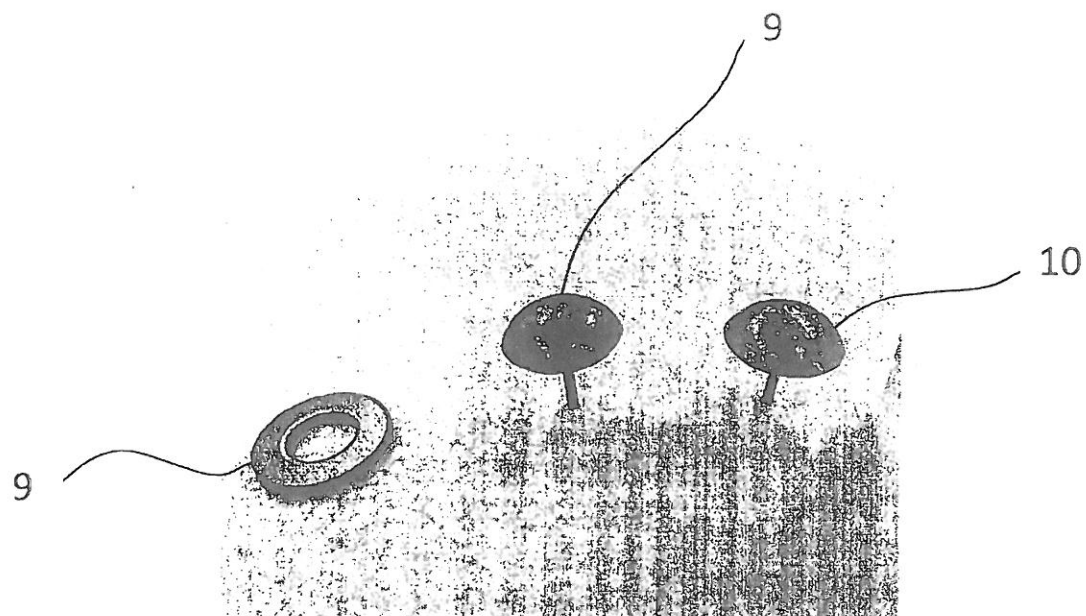
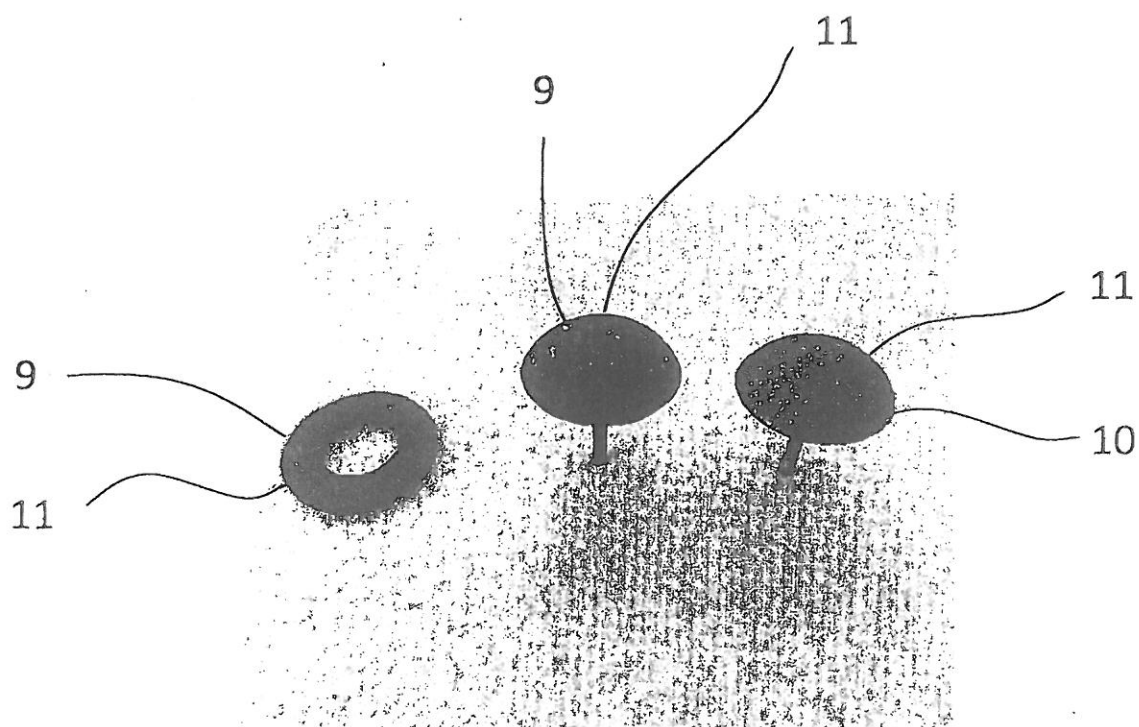


FIG. 6



Cyclic decontamination
method (12 hours)

FIG. 7



Dry fog (1 hour)

FIG. 8

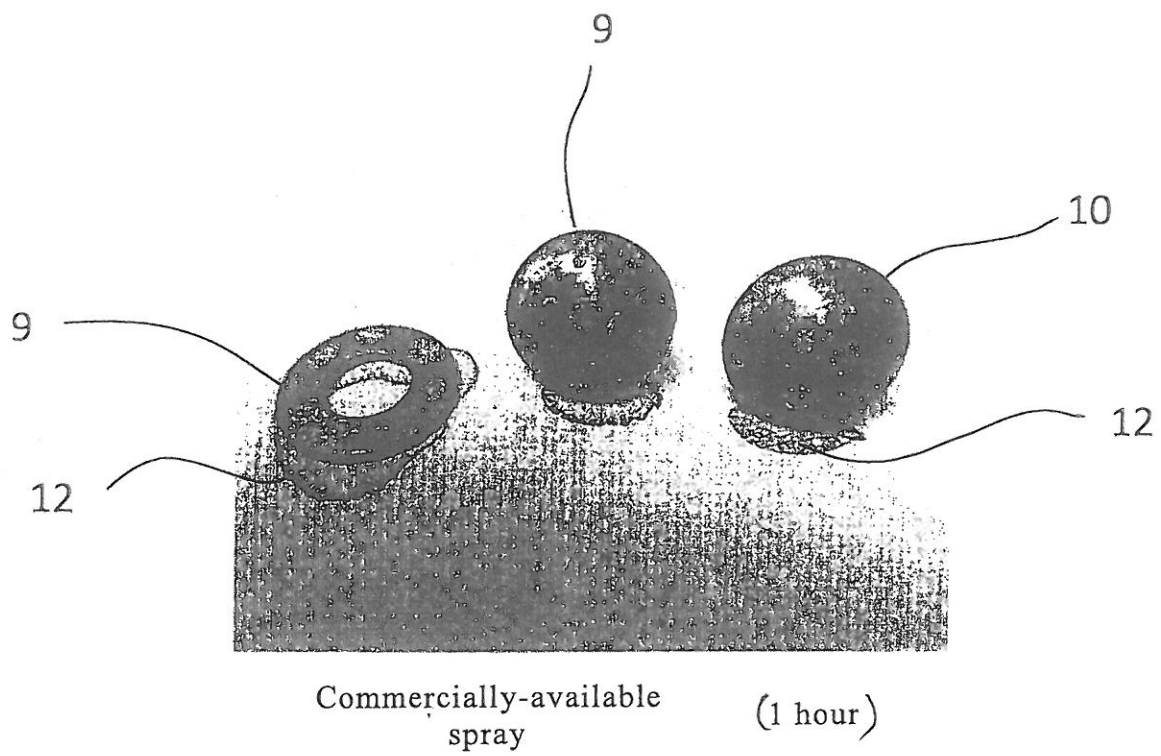
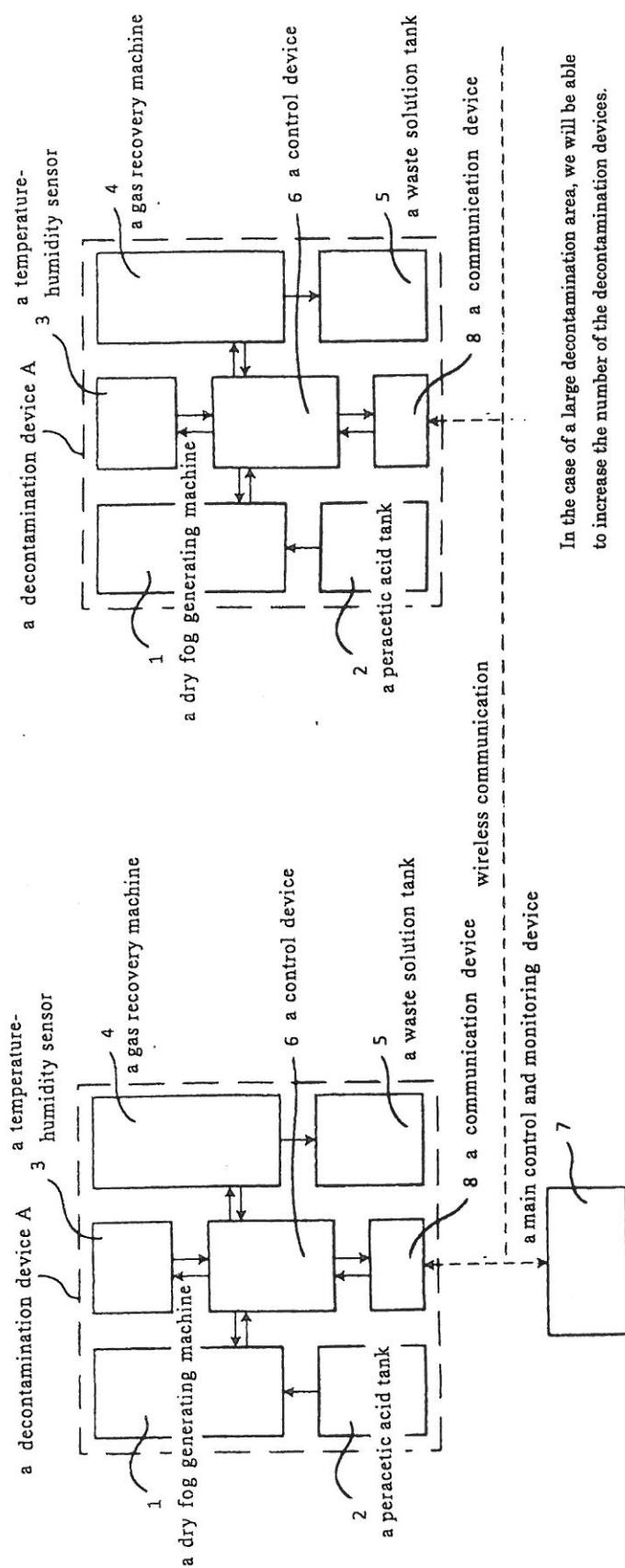


FIG. 9



In the case of a large decontamination area, we will be able to increase the number of the decontamination devices.