

FIG. 1

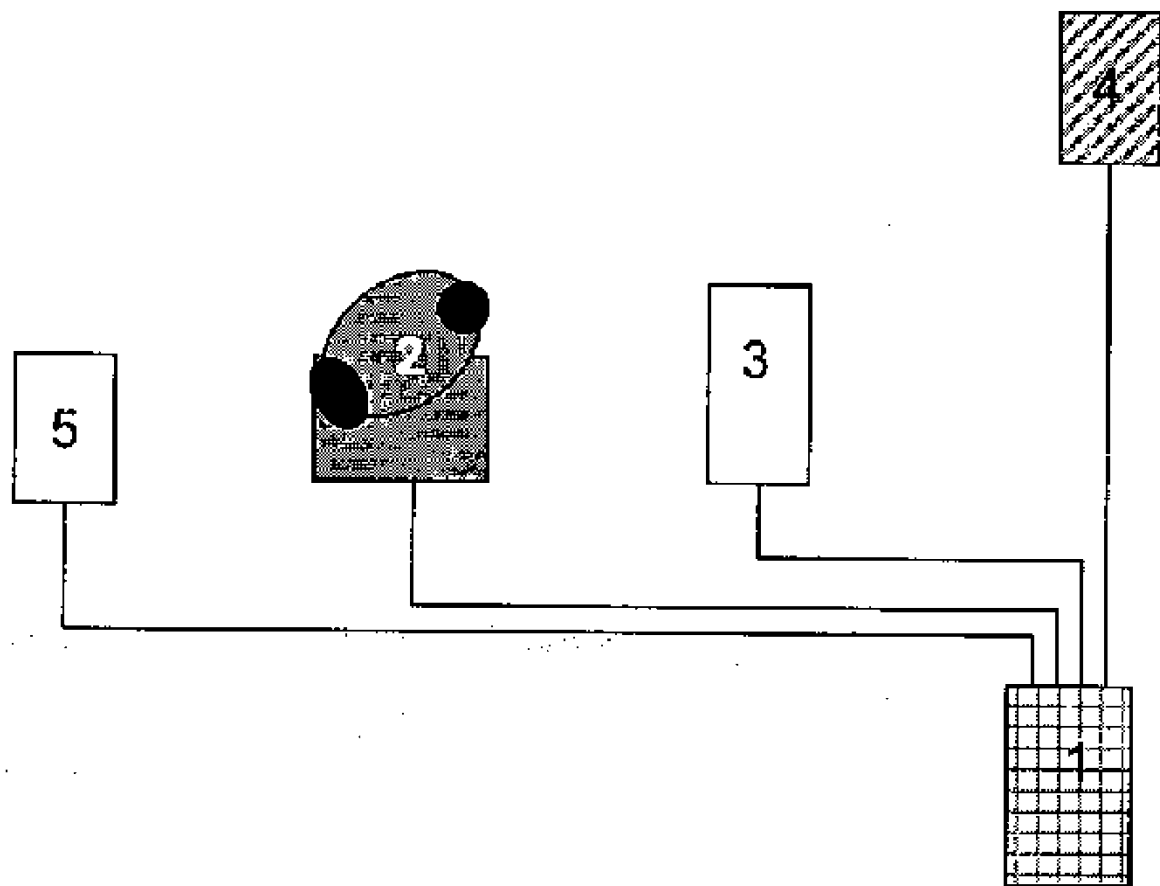


FIG. 2

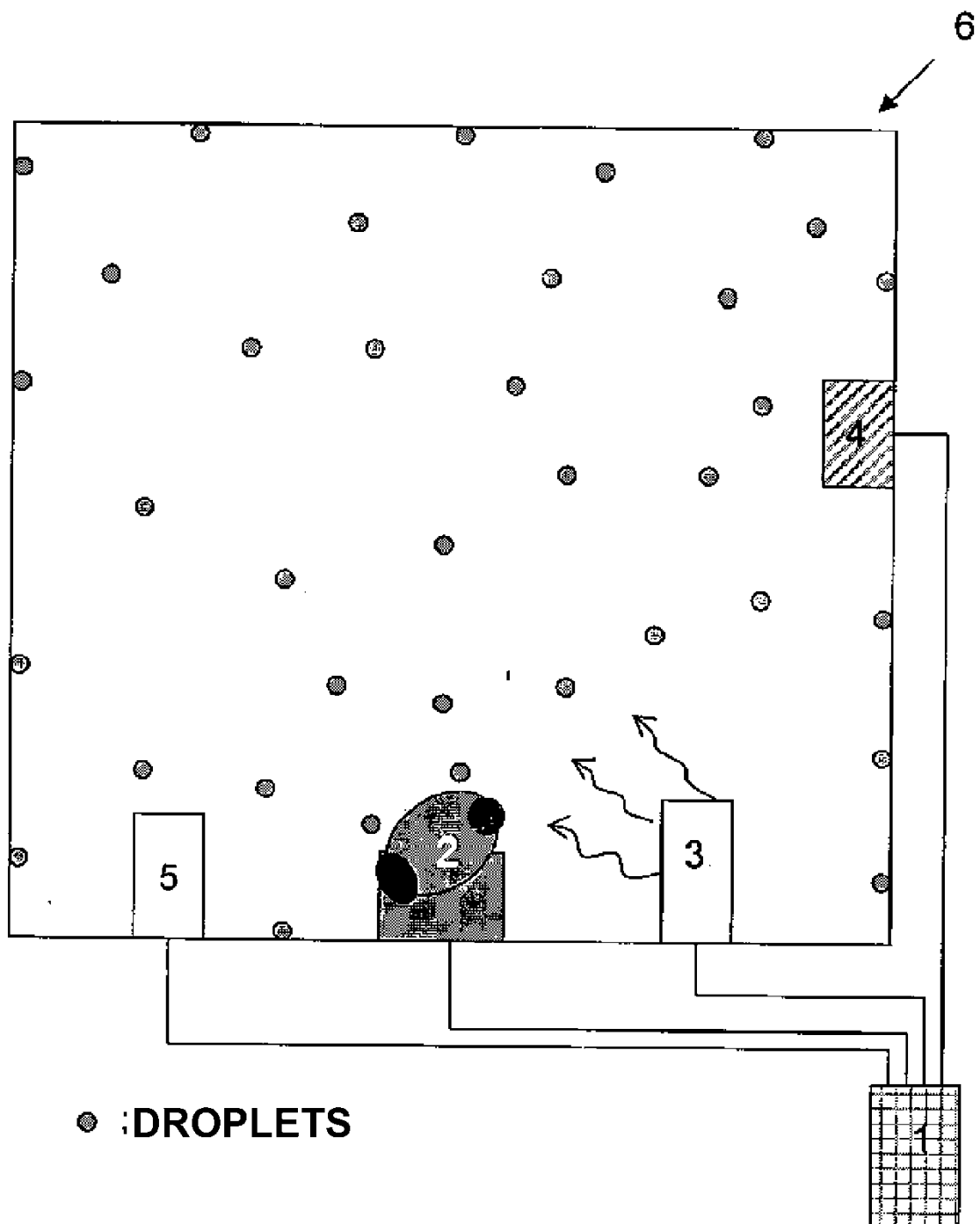


FIG. 3

	PROCEDURE
(a)	SET REFERENCE TEMPERATURE (T_1) AND REFERENCE HUMIDITY (H_1) AND MEASURE EFFECTIVE DECONTAMINATION PERIOD (t_1) AT SET DECONTAMINATION HUMIDITY (H) MULTIPLE TIMES TO DETERMINE EFFECTIVE DECONTAMINATION PERIOD (t_1)
(b)	DETERMINE AMOUNT OF CHEMICAL TO BE SPRAYED BASED ON AMOUNT OF SATURATED WATER VAPOR $a(T_1)$ AT REFERENCE TEMPERATURE (T_1) AND RATIO BETWEEN REFERENCE HUMIDITY (H_1) AND MAXIMUM ACHIEVABLE HUMIDITY
(c)	DETERMINE AMOUNT OF CHEMICAL TO BE SPRAYED BASED ON AMOUNT OF SATURATED WATER VAPOR $a(T_0)$ AT INITIAL TEMPERATURE (T_0) AND RATIO BETWEEN INITIAL HUMIDITY (H_0) AND MAXIMUM ACHIEVABLE HUMIDITY
(d)	DETERMINE RATIO BETWEEN AMOUNT OF CHEMICAL AT REFERENCE TEMPERATURE/HUMIDITY AND AMOUNT OF CHEMICAL AT INITIAL TEMPERATURE/HUMIDITY BASED ON RATIOS IN (b) AND (c)
(e)	ADD CHEMICAL UNTIL INITIAL TEMPERATURE/HUMIDITY IN (c) CHANGES TO SET DECONTAMINATION HUMIDITY (H) AND MEASURE EFFECTIVE DECONTAMINATION PERIOD MULTIPLE TIMES TO DETERMINE EFFECTIVE DECONTAMINATION PERIOD
(f)	MULTIPLY EFFECTIVE DECONTAMINATION PERIOD (t_1) IN (a) BY RATIO OF CHEMICAL IN (d)
(g)	CONSIDER WEIGHTS FOR TEMPERATURE AND HUMIDITY IN SUCH A WAY THAT (f) IS APPROXIMATELY EQUAL TO (e) TO DETERMINE TEMPERATURE COEFFICIENT (α) AND HUMIDITY COEFFICIENT (β), AND MULTIPLY TEMPERATURE AND HUMIDITY BY COEFFICIENTS
(h)	ADD PERIOD (t_2) FOR COMPENSATING ERROR OF HUMIDITY SENSOR TO (g)
(i)	ARBITRARY DECONTAMINATION PERIOD (t_d) CAN BE DETERMINED FROM THE FOLLOWING EXPRESSION BY INPUTTING INITIAL TEMPERATURE (T_0) AND INITIAL HUMIDITY (H_0): $t_d = \alpha \times a(T_1) / a(T_0) \times \beta \times H_1 / (H - H_0) \times t_1 + t_2$

DECONTAMINATION PERIOD	t_d
EFFECTIVE DECONTAMINATION PERIOD AT REFERENCE TEMPERATURE AND HUMIDITY	t_1
PERIOD FOR COMPENSATING ERROR OF TEMPERATURE-HUMIDITY SENSOR	t_2
INITIAL TEMPERATURE IN DEVICE TO BE DECONTAMINATED	T_0
INITIAL HUMIDITY IN DEVICE TO BE DECONTAMINATED	H_0
REFERENCE TEMPERATURE	T_1
REFERENCE HUMIDITY	H_1
SET DECONTAMINATION HUMIDITY	H
AMOUNT OF SATURATE WATER VAPOR AT INITIAL TEMPERATURE	$a(T_0)$
AMOUNT OF SATURATE WATER VAPOR AT REFERENCE TEMPERATURE	$a(T_1)$
TEMPERATURE COEFFICIENT	α
HUMIDITY COEFFICIENT	β

FIG. 4

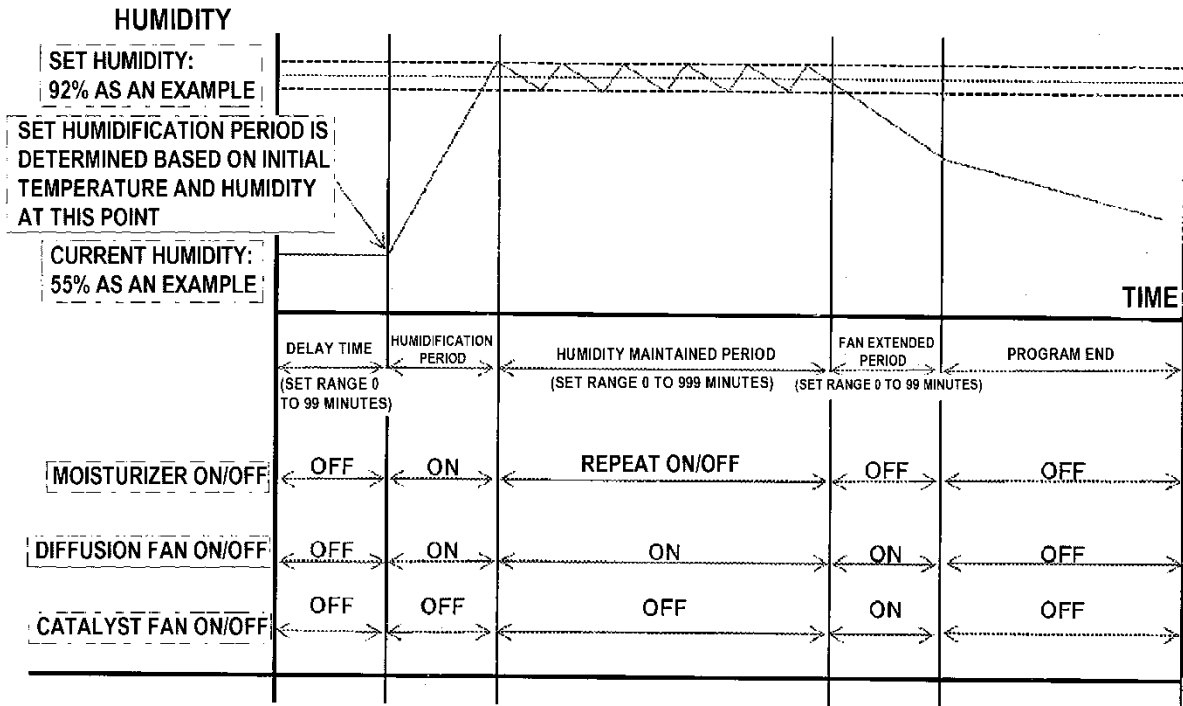


FIG. 5

