

FIG.1

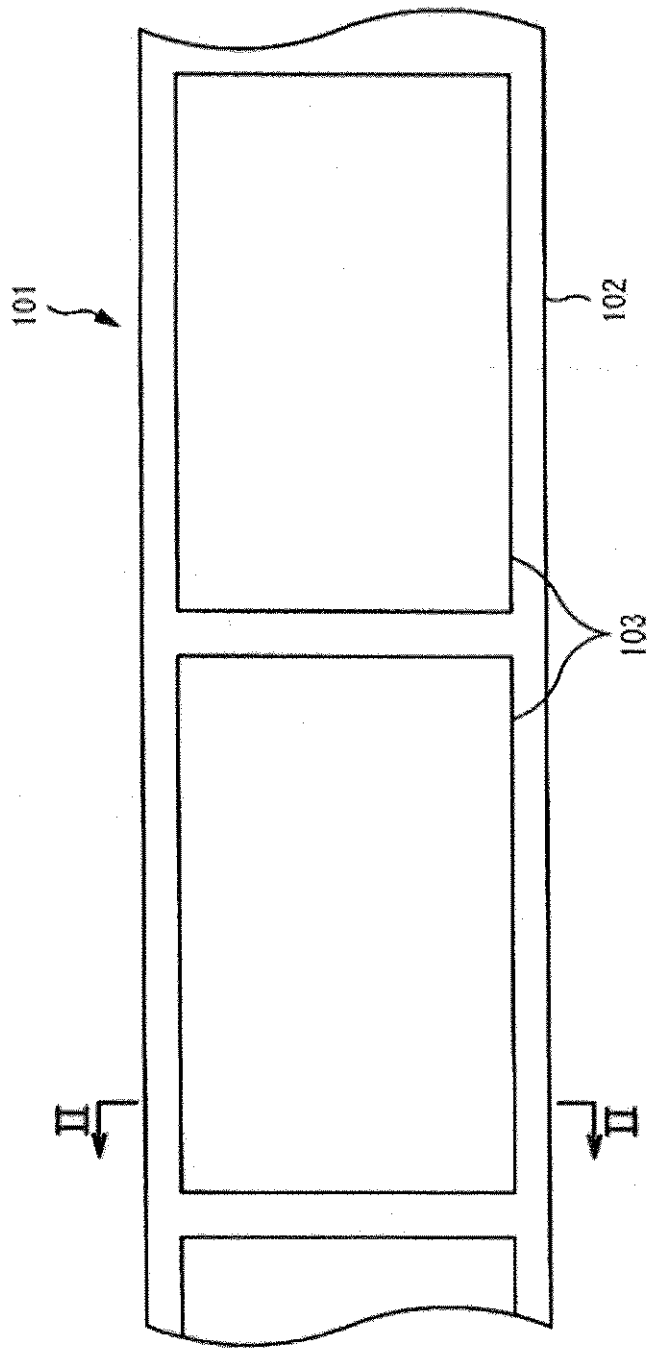


FIG.2

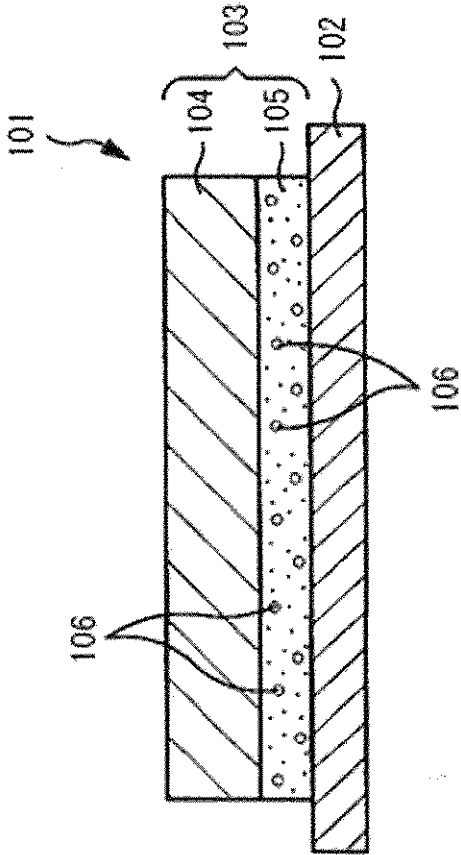


FIG. 3

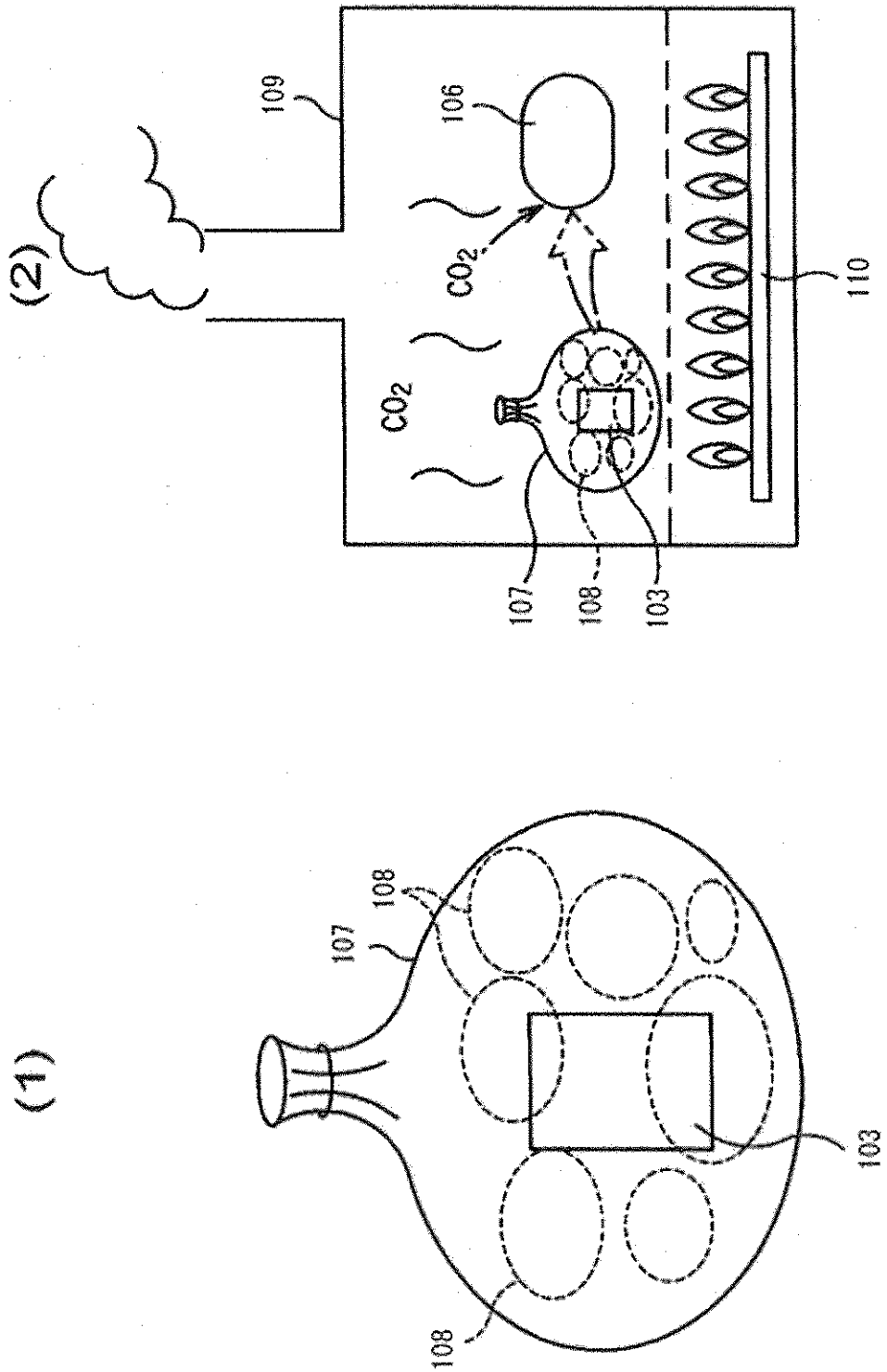


FIG. 5

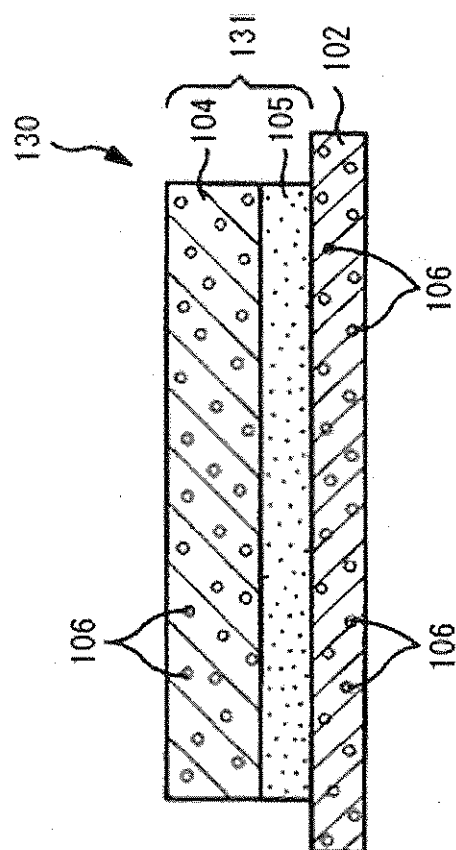


FIG. 6

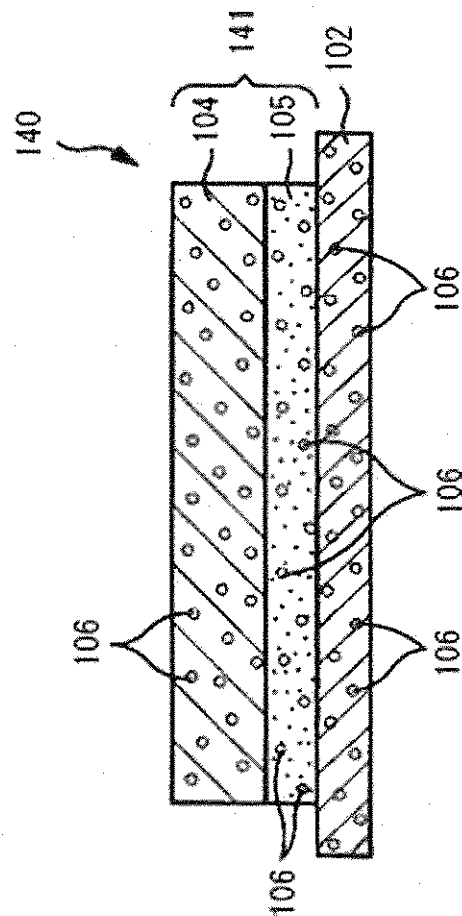


FIG.7

[CARBON DIOXIDE REDUCTION AMOUNT]

SAMPLE (CONCENTRATION OF CO ₂ REDUCING AGENT[%])	RESIDUE AMOUNT [%]	DIFFERENCE IN RESIDUE AMOUNT [%]	CO ₂ REDUCTION AMOUNT [%]
0.00	8.24	-	-
0.01	10.21	1.97	33.68
0.05	11.43	3.19	51.99
0.10	11.71	3.47	56.20

FIG. 8

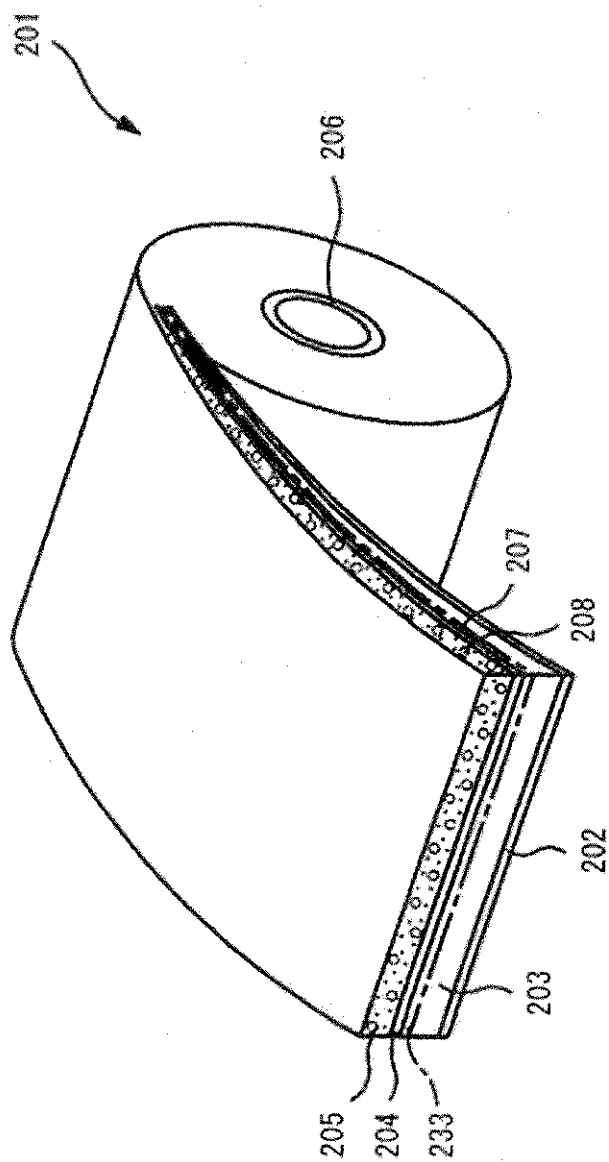


FIG. 9

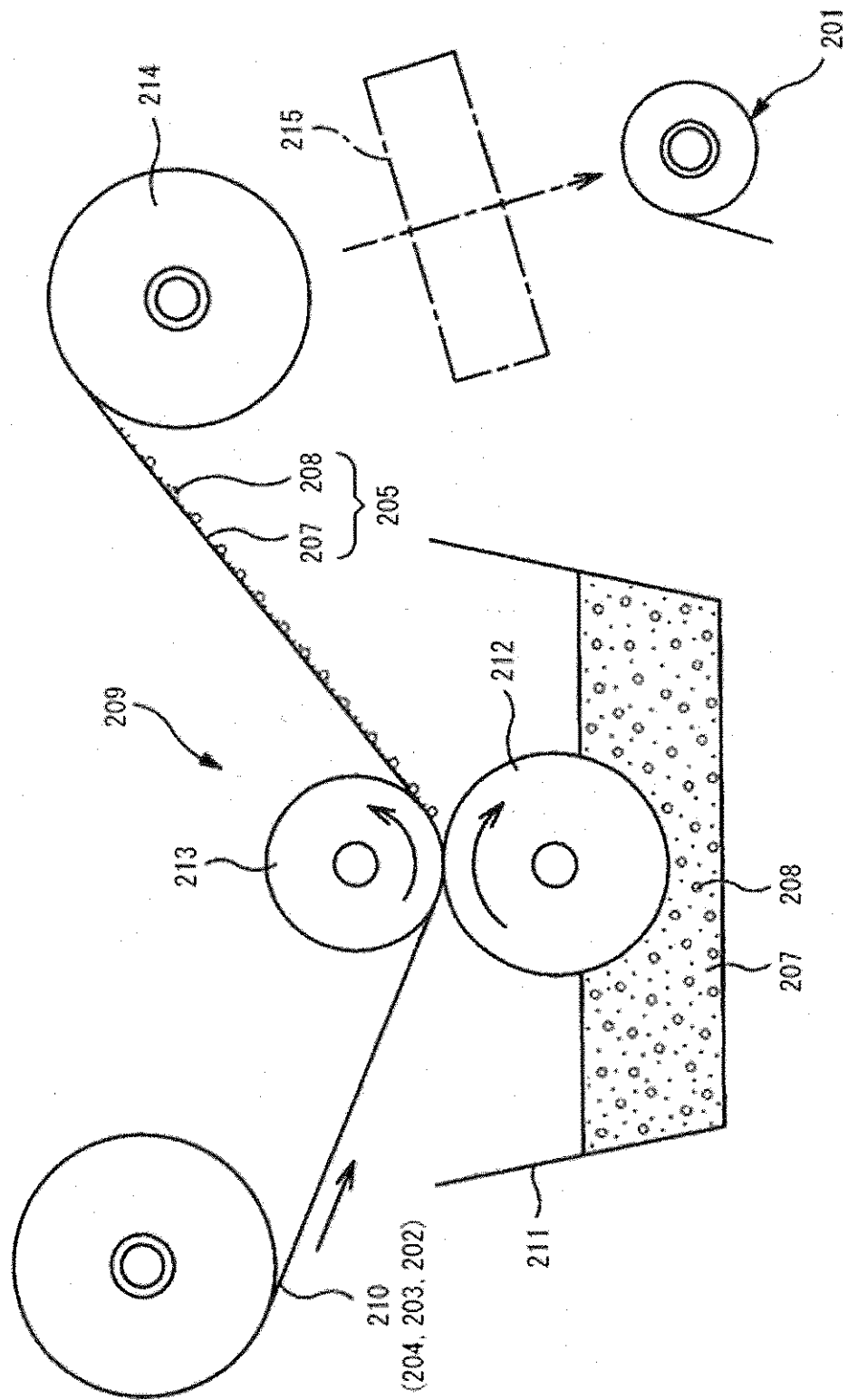


FIG. 11

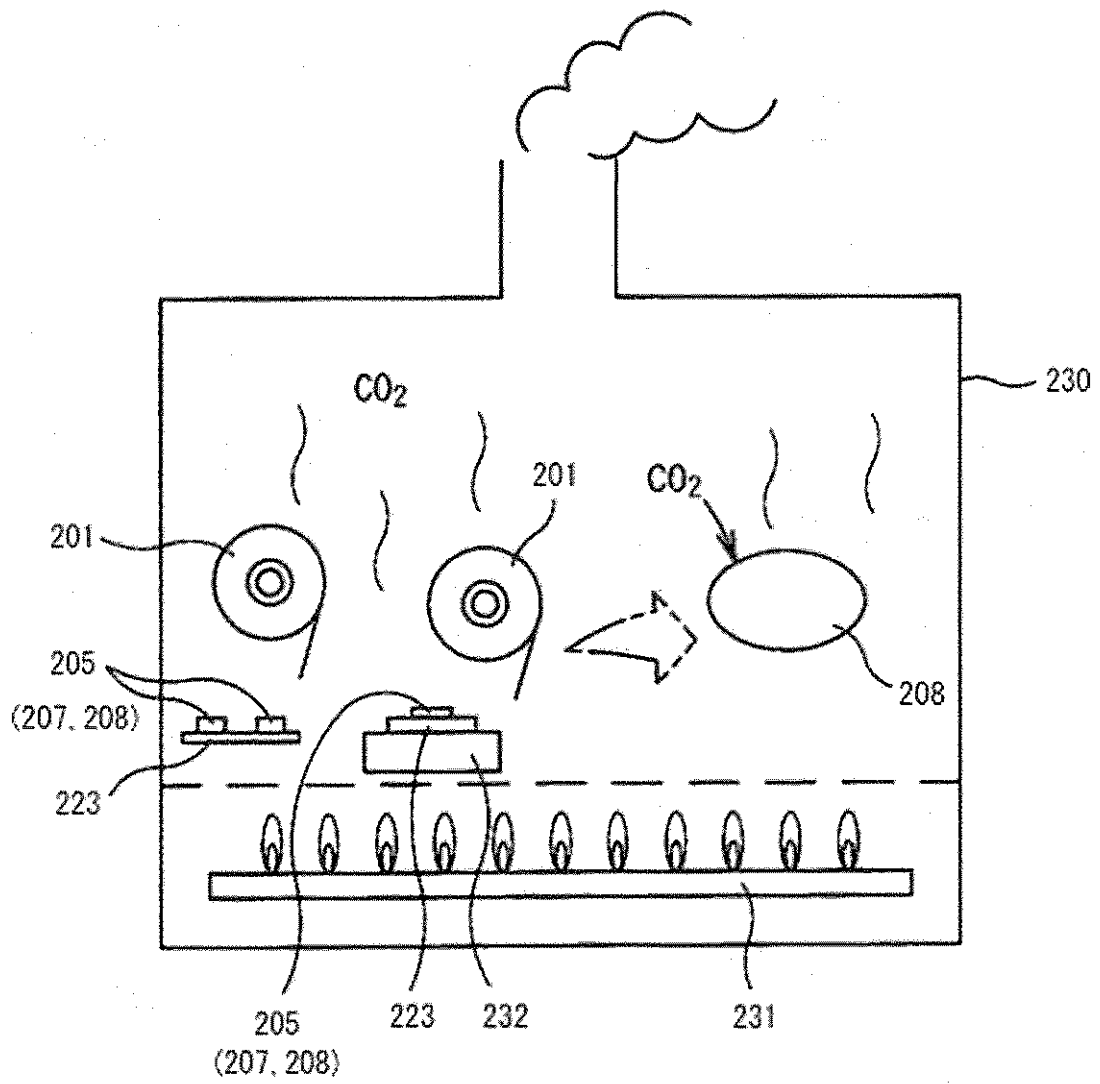


FIG.12

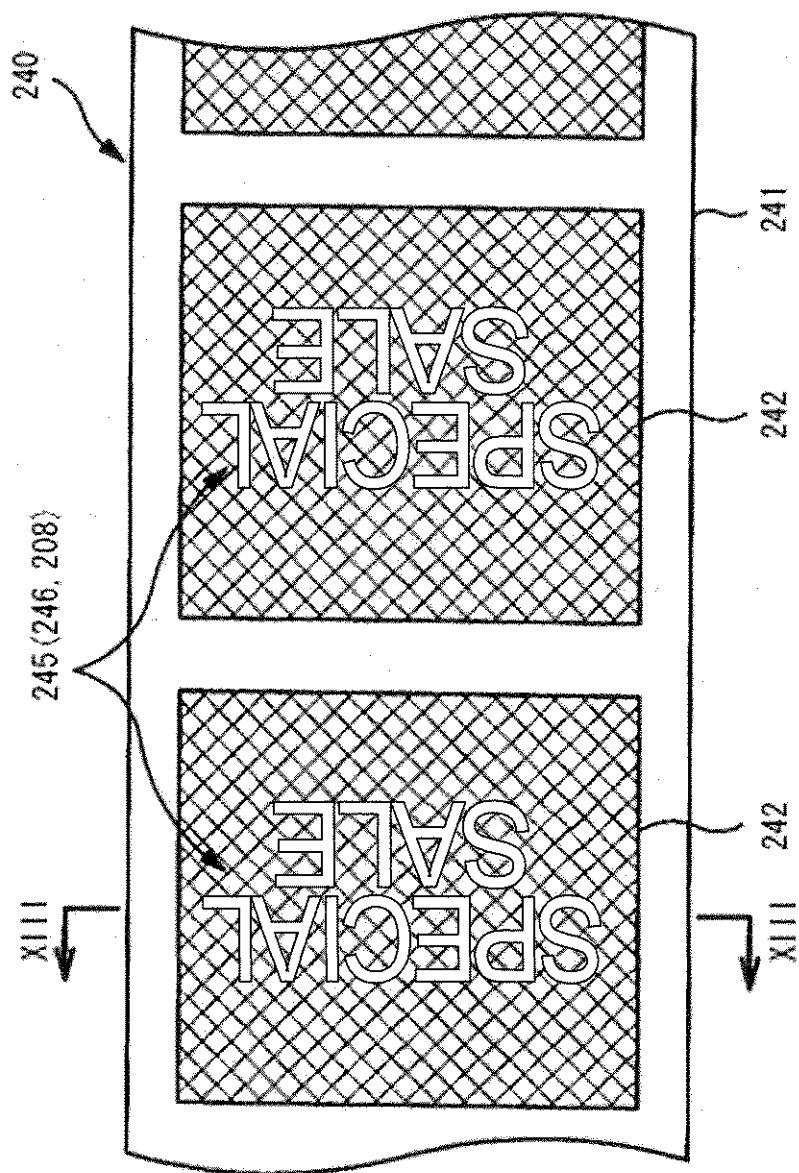


FIG. 13

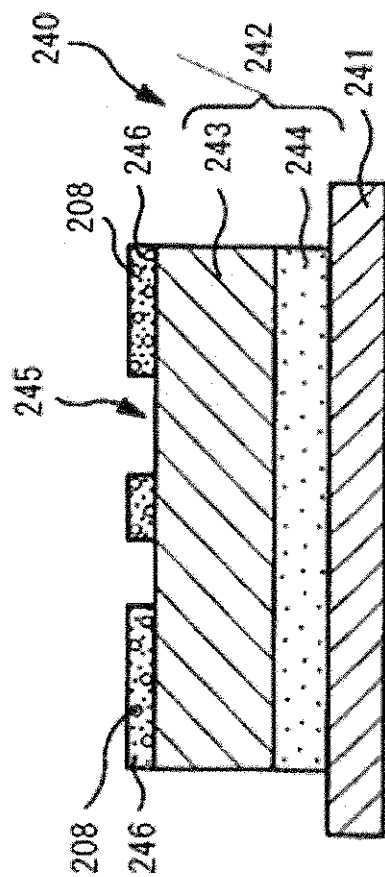


FIG. 14

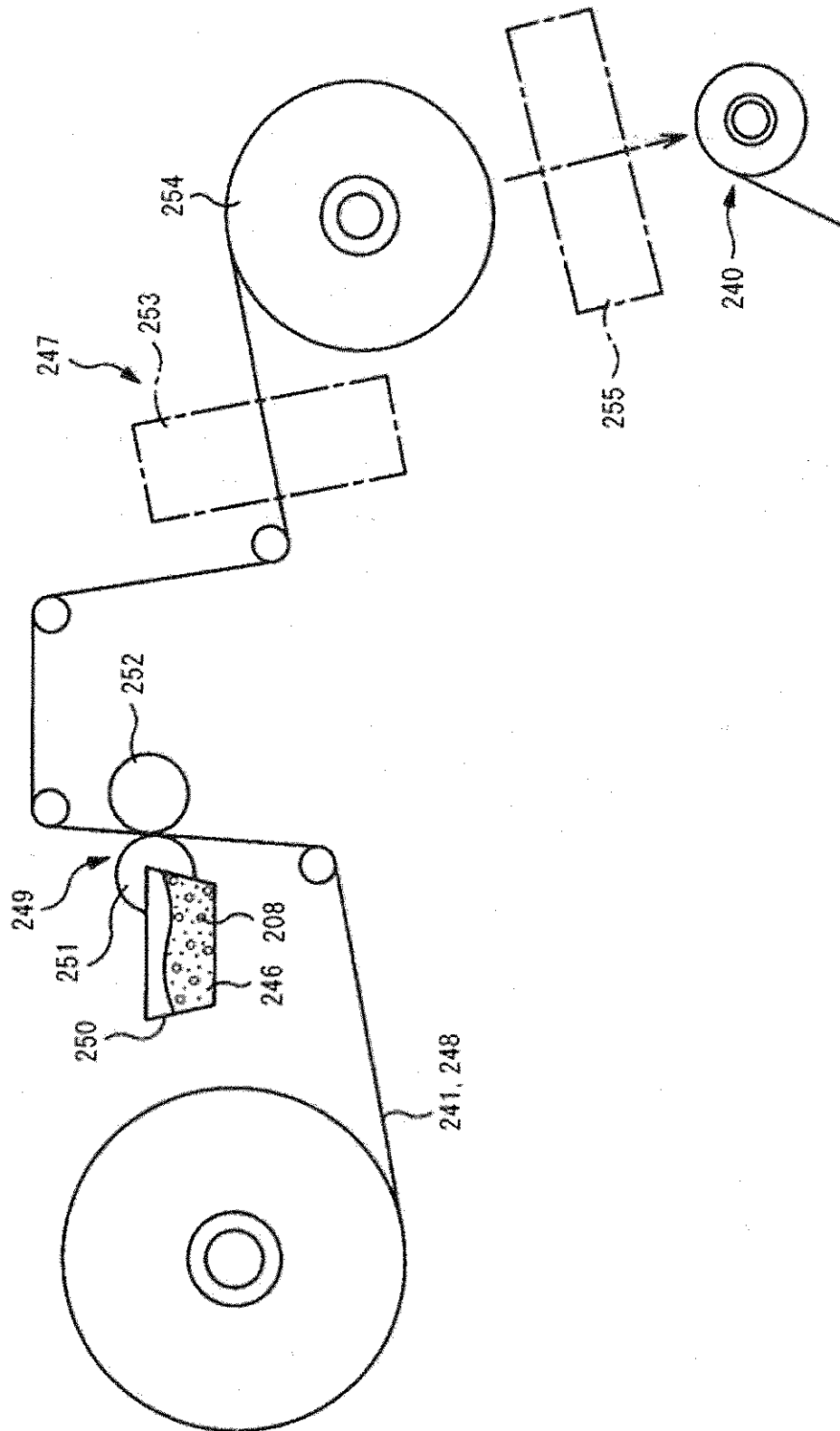


FIG. 15

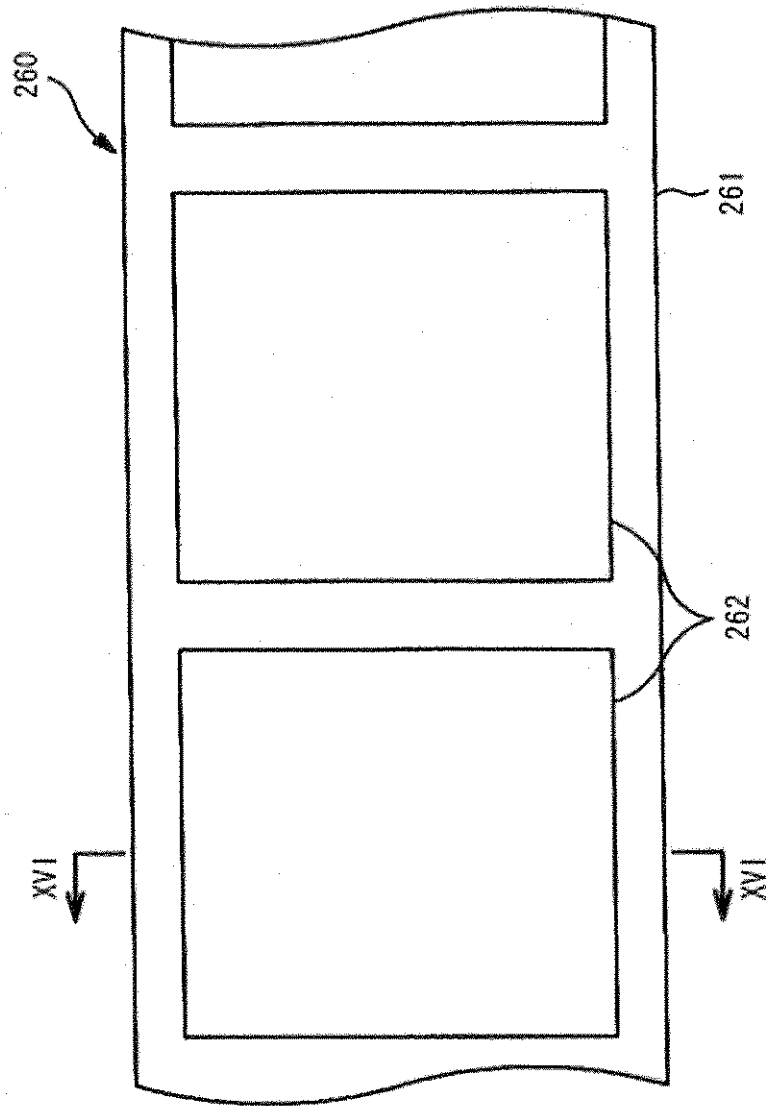


FIG. 16

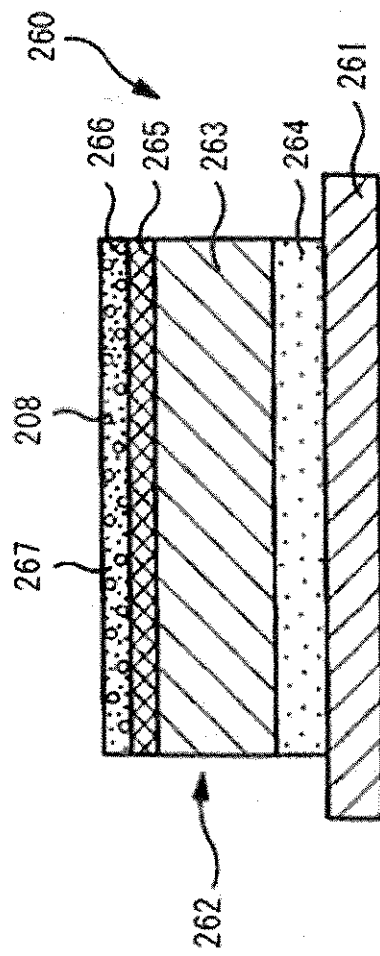


FIG.17

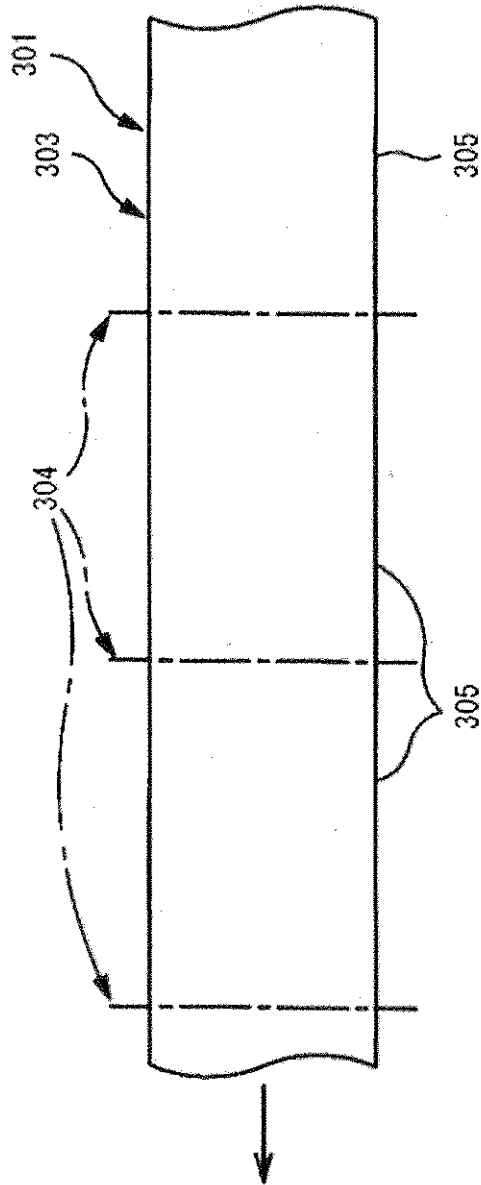


FIG. 19

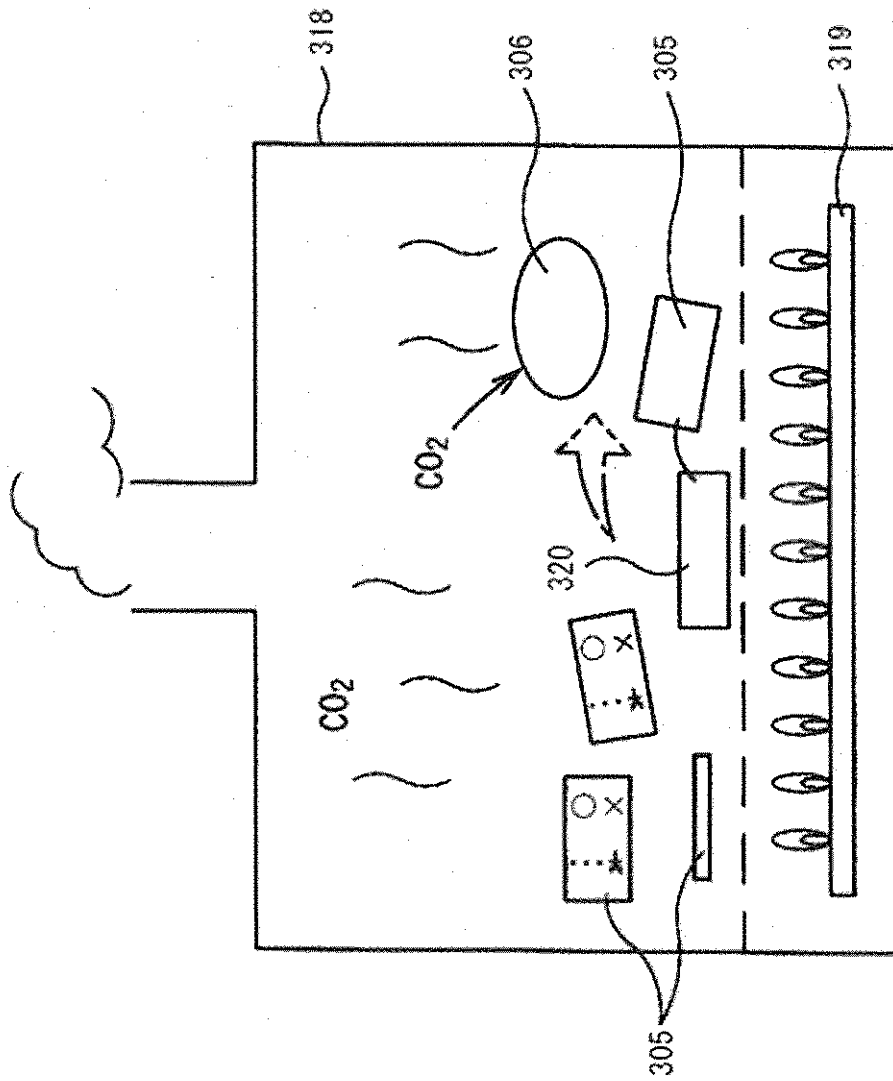


FIG.20

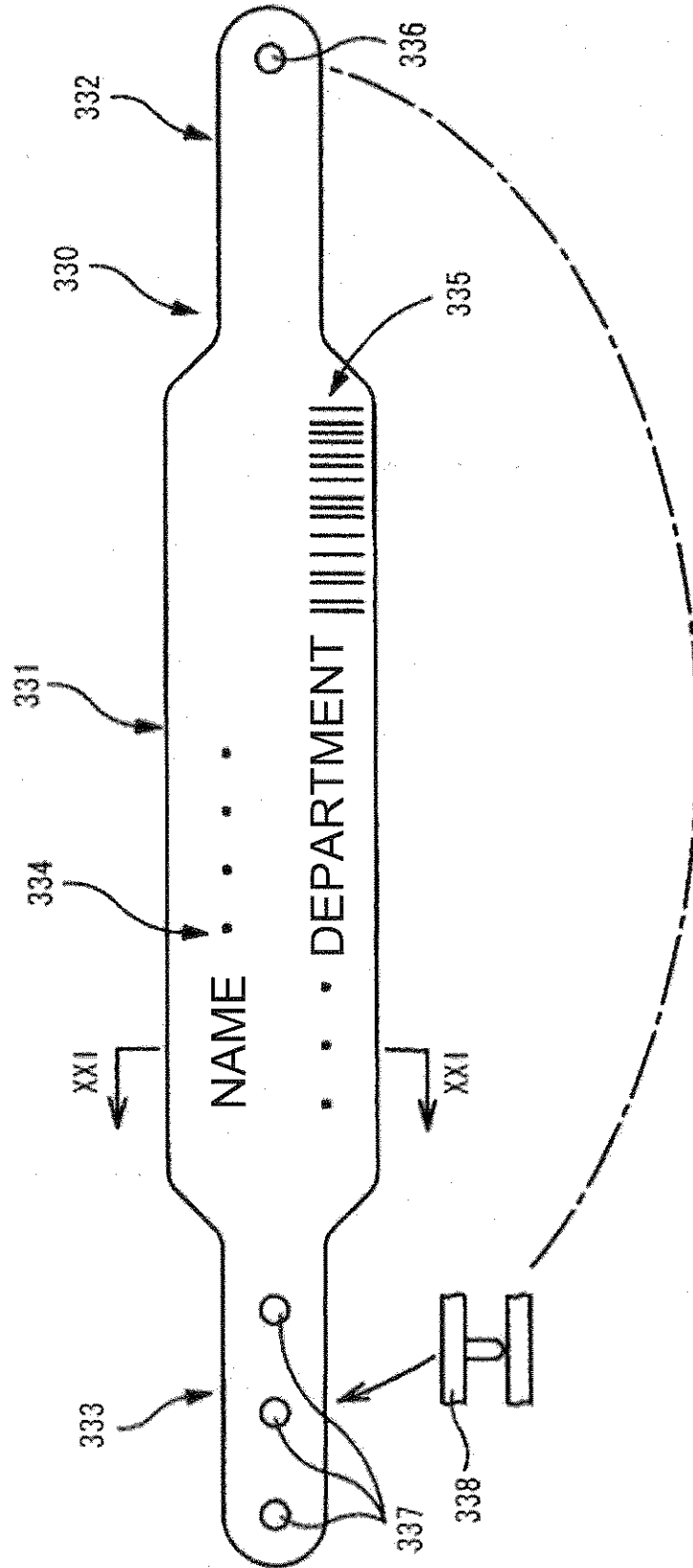


FIG.21

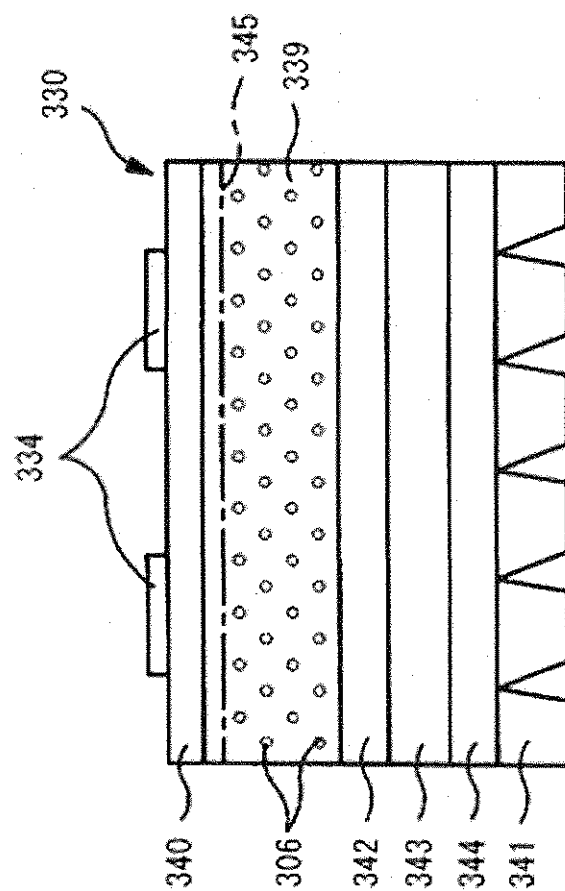


FIG.22

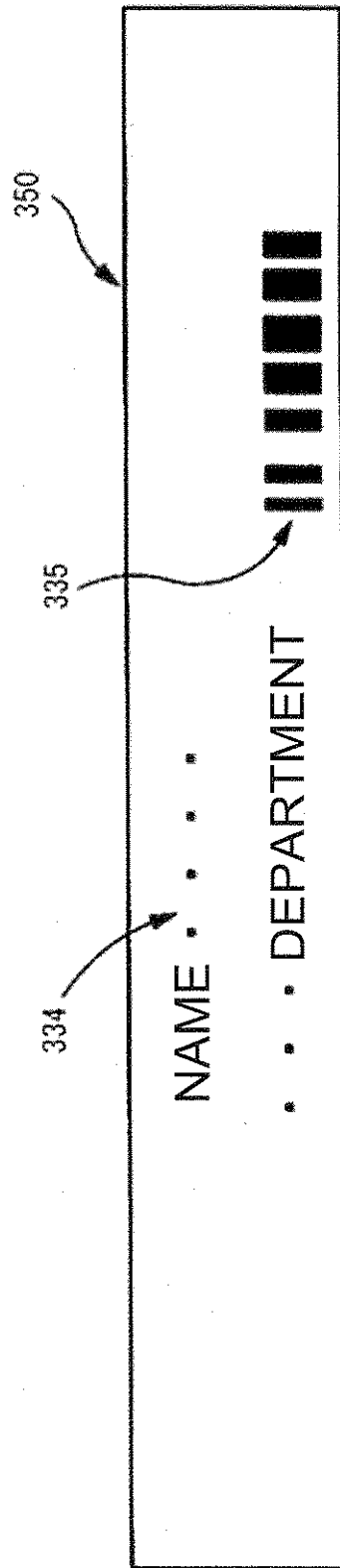


FIG.23

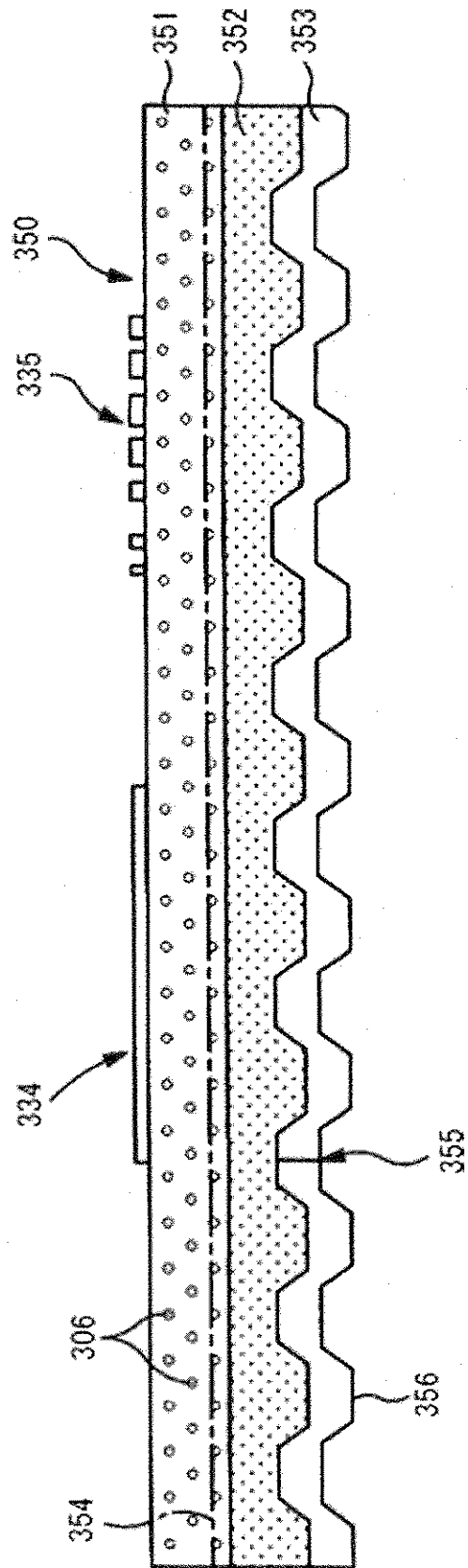


FIG.24

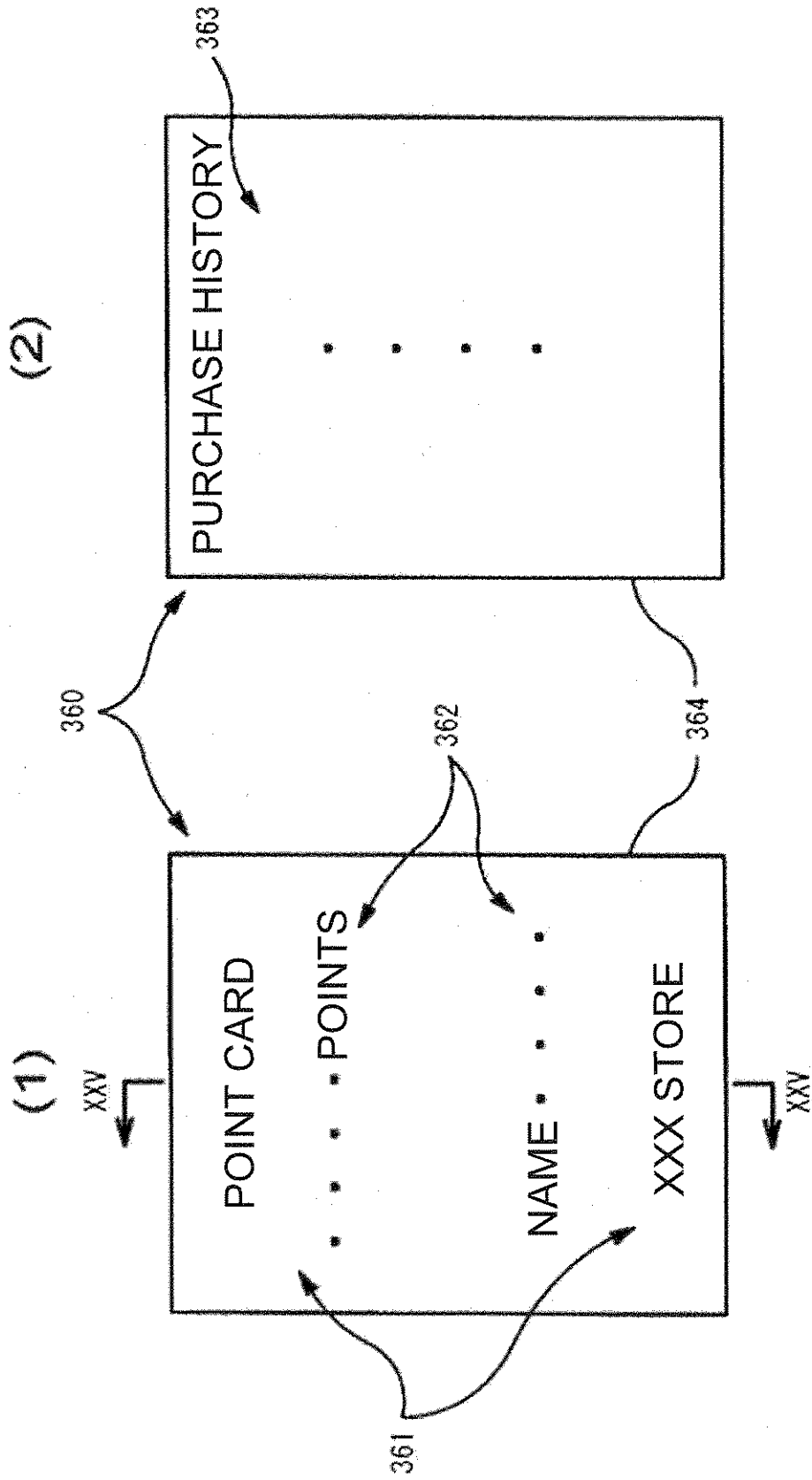


FIG.25

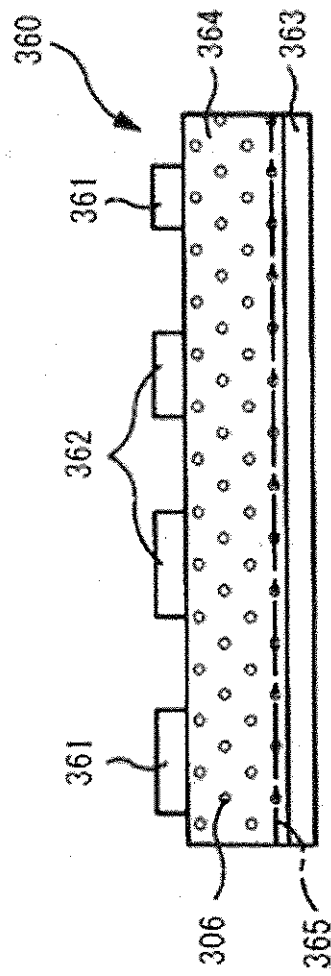


FIG.26

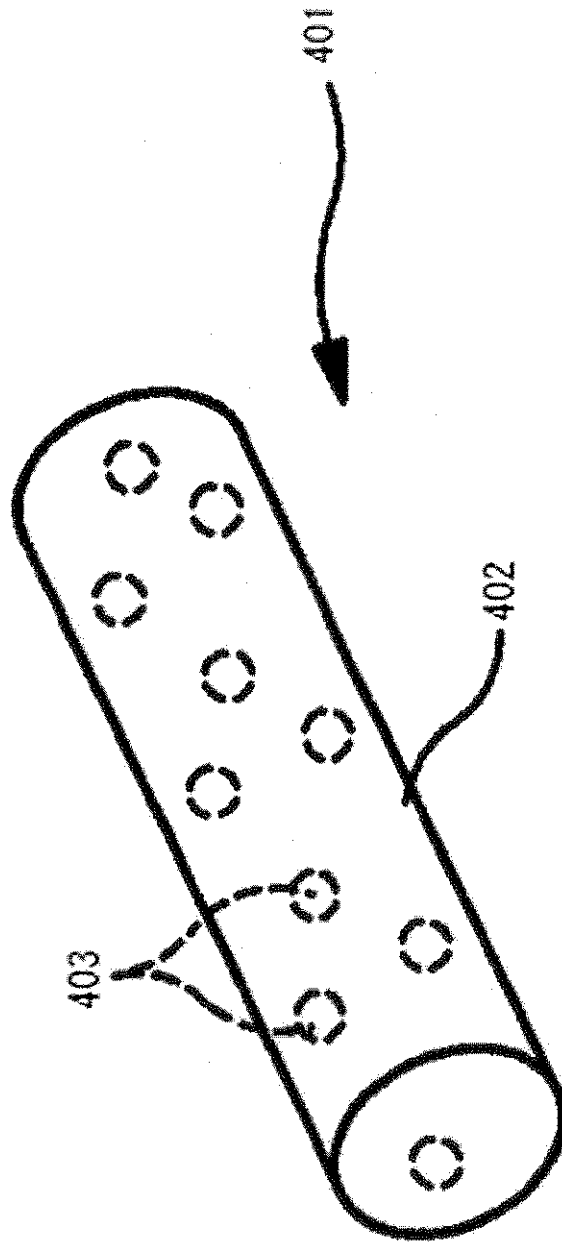


FIG.27

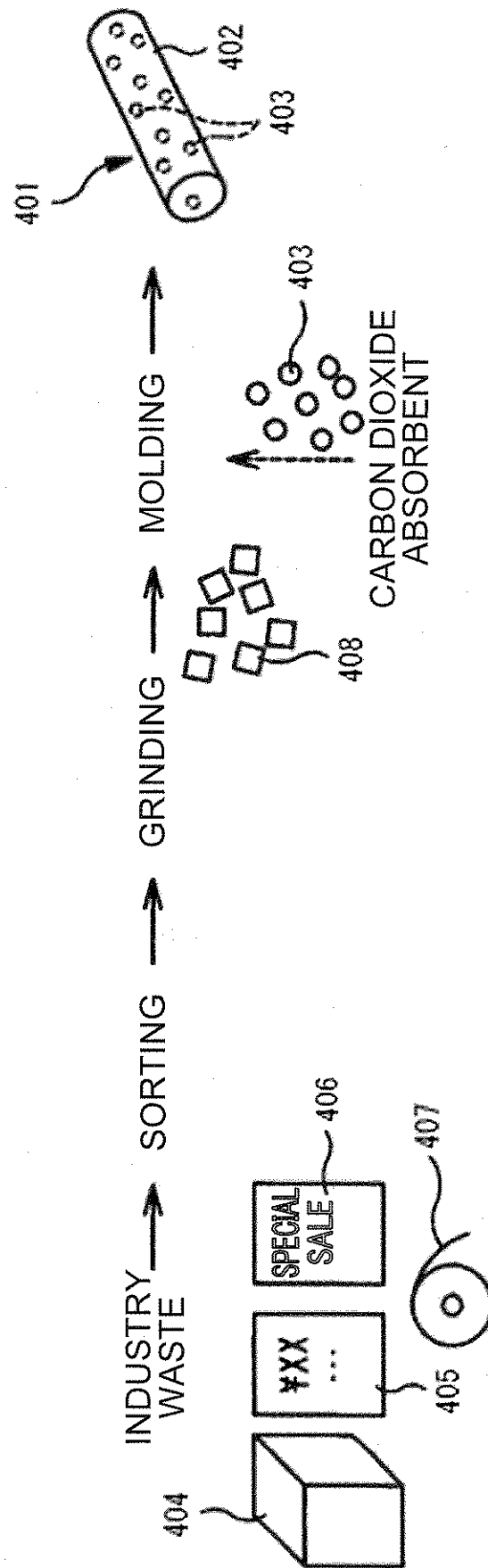


FIG.28

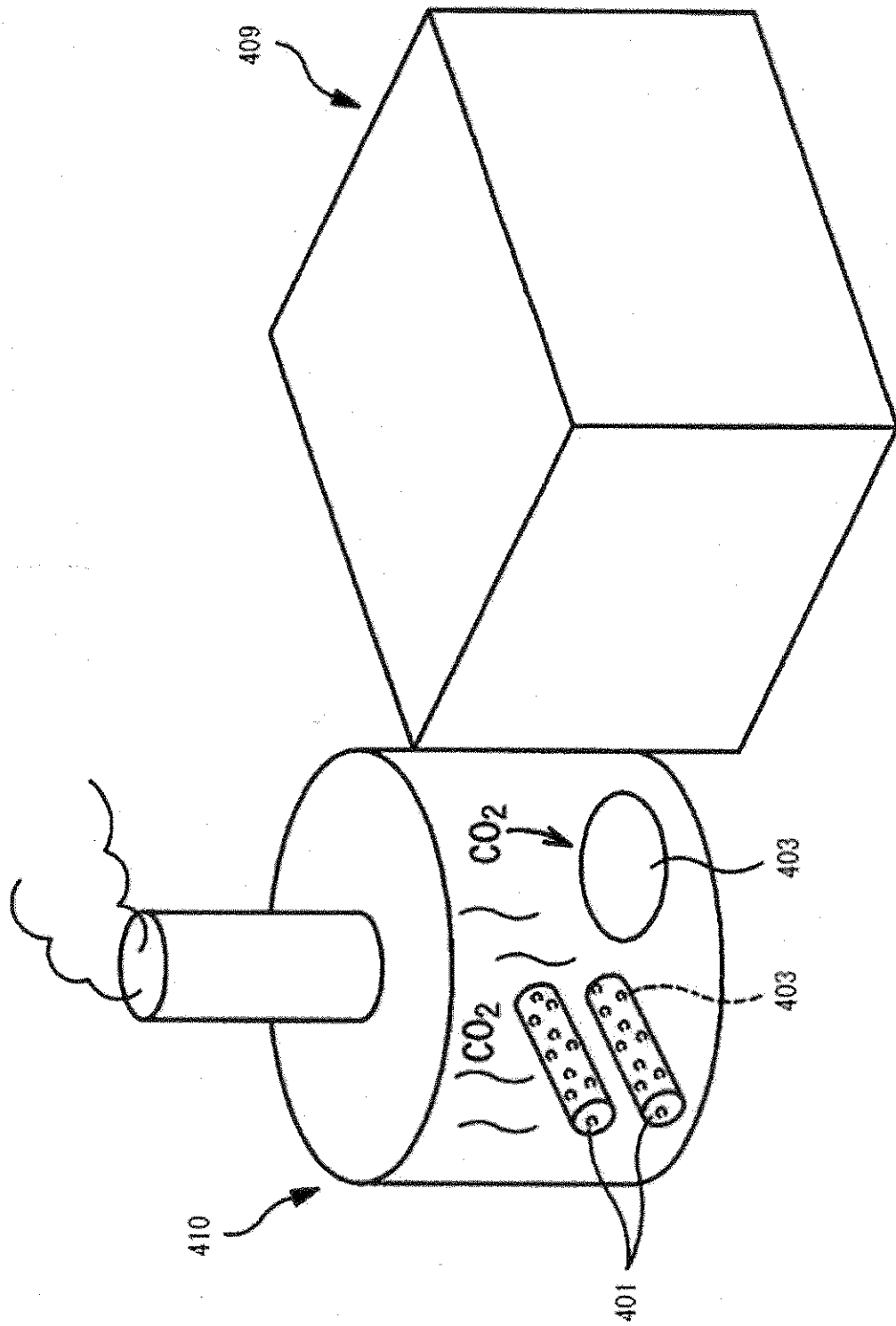


FIG.29

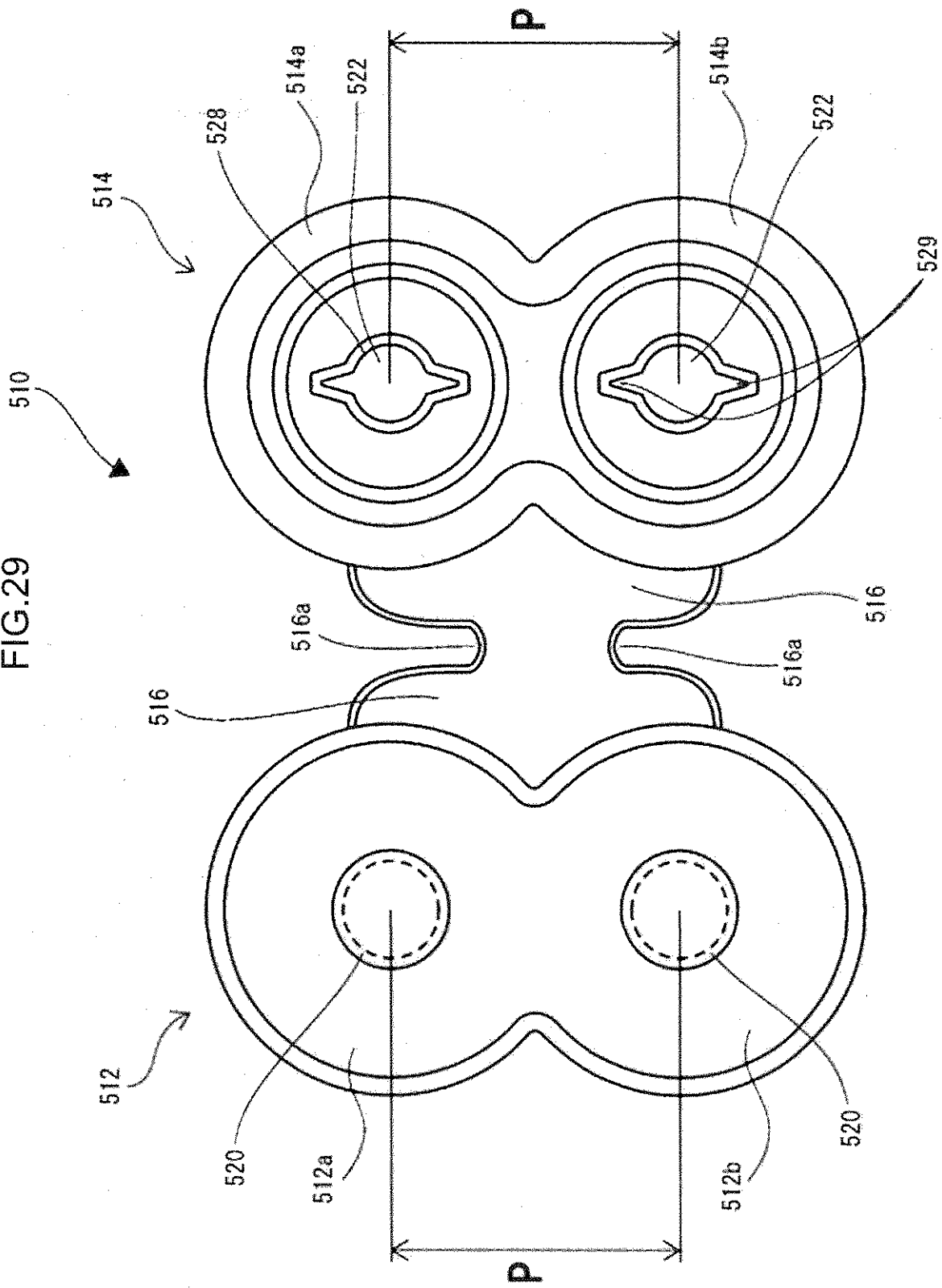


FIG.30

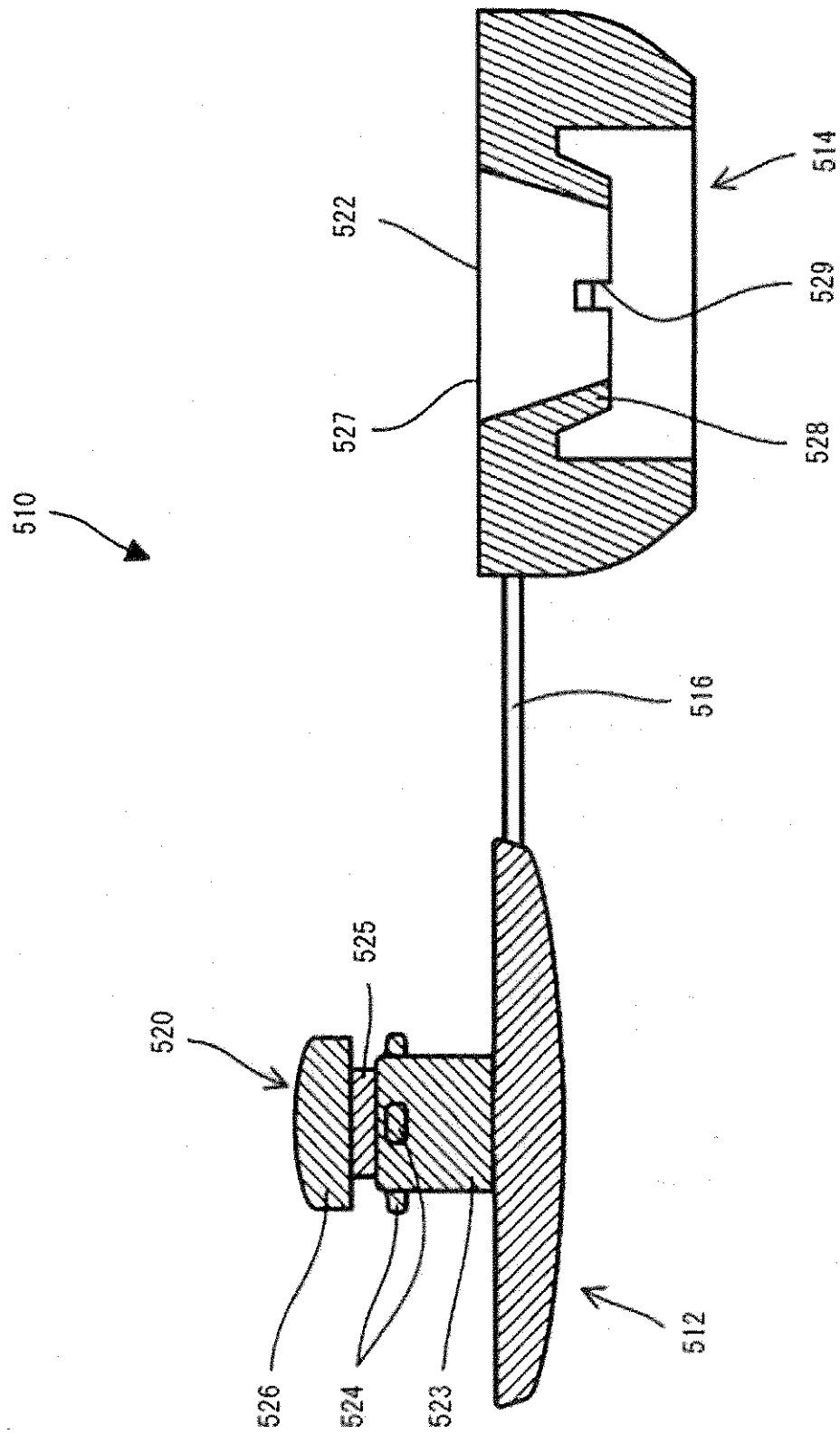


FIG.31

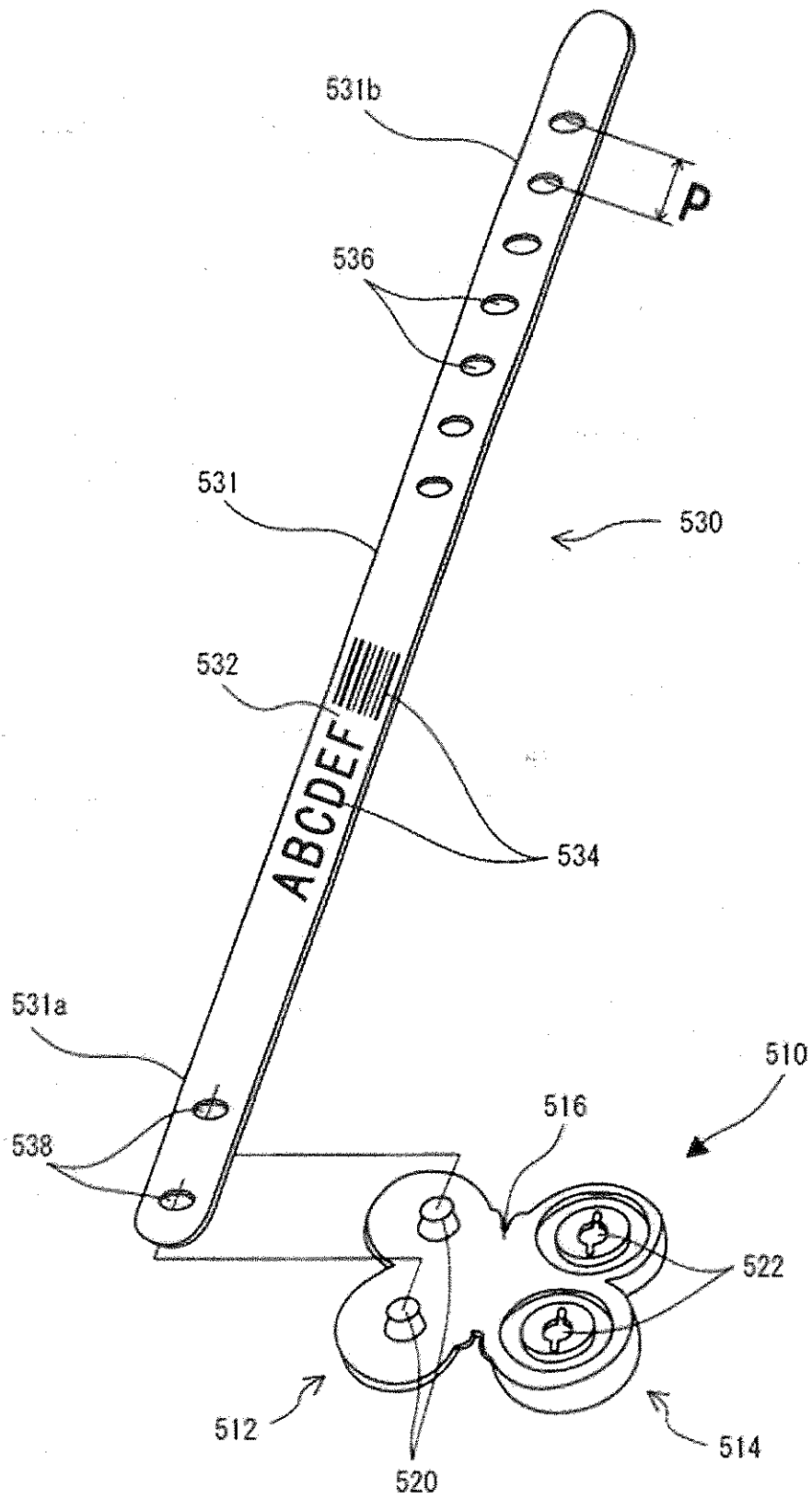


FIG.32

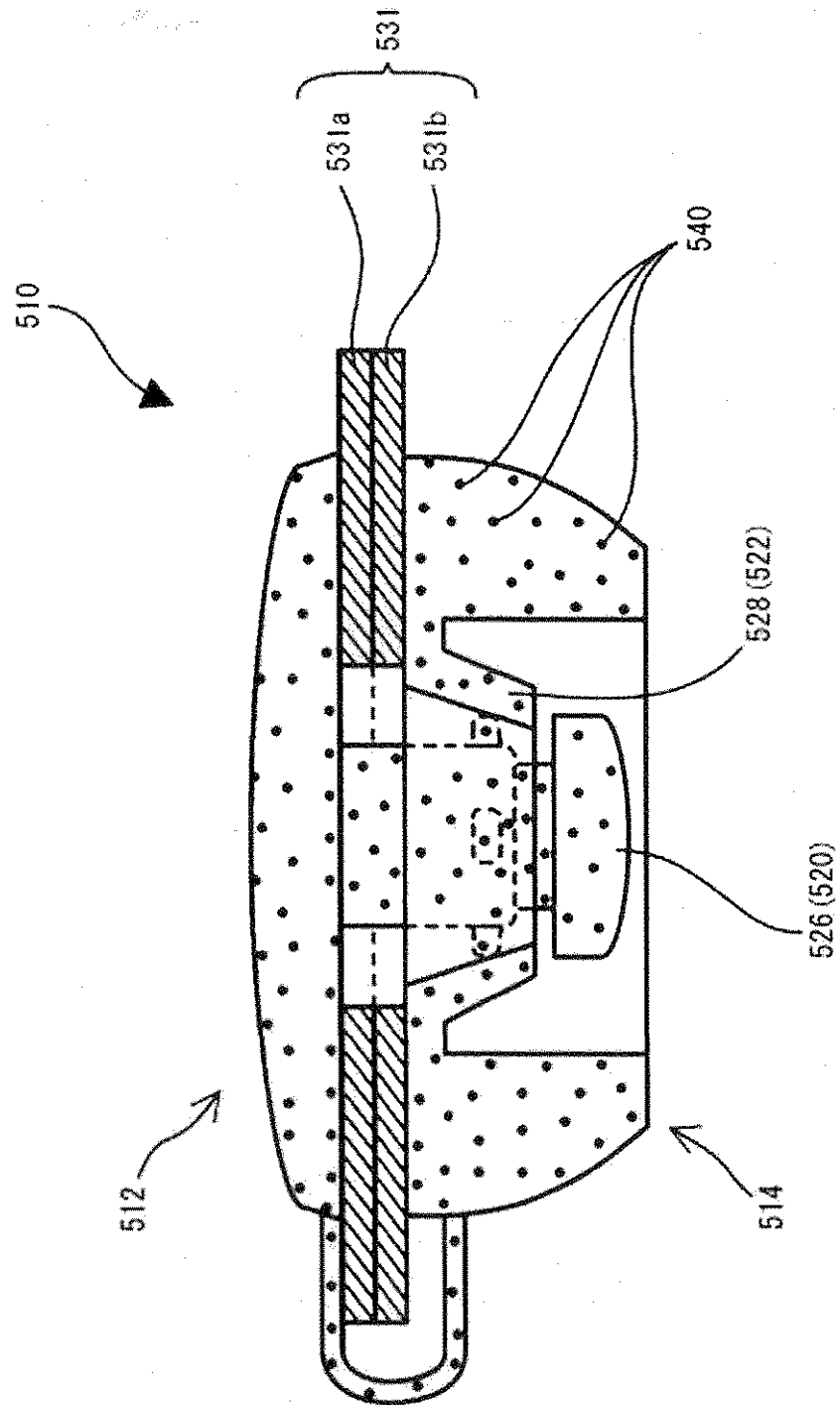


FIG. 33

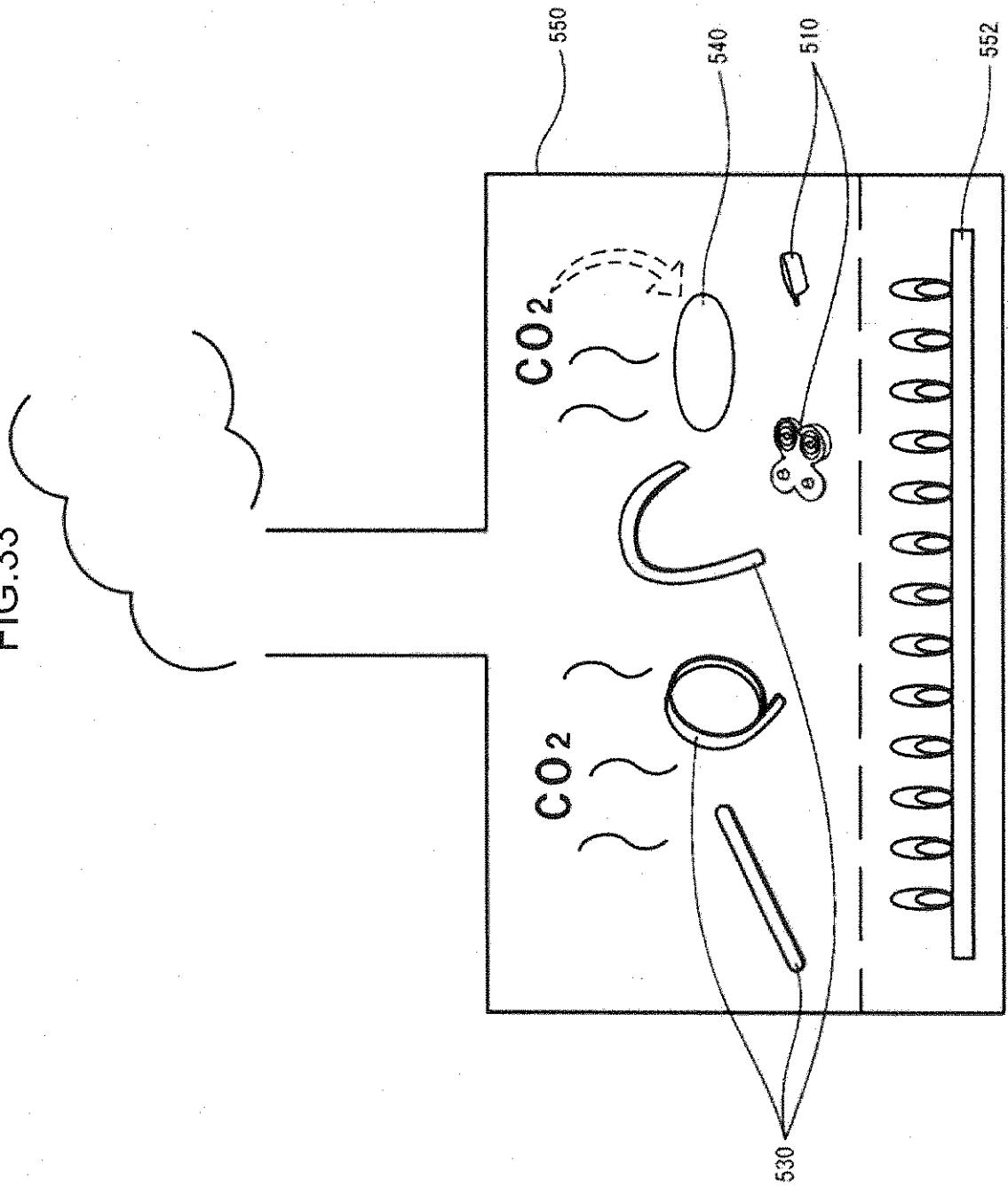


FIG.34

[CARBON DIOXIDE REDUCTION AMOUNT]

SAMPLE (CONCENTRATION OF CO ₂ REDUCING AGENT[%])	RESIDUE AMOUNT [%]	DIFFERENCE IN RESIDUE AMOUNT [%]	CO ₂ REDUCTION AMOUNT [%]
NOT ADDED	5.32	—	—
3.00	9.37	4.05	64.89

FIG.35

NUMBER	CARBON DIOXIDE ABSORBENT	DISPERSION AID	RESIN	DISPERSION TREATMENT METHOD			EVALUATION RESULT			
				SUPER CRITICAL FLUID TREATMENT	ULTRASONIC IRRADIATION TREATMENT	STIRRING TREATMENT	CARBON DIOXIDE EMISSION AMOUNT mg/g	TENSILE YIELD STRESS MPa	BENDING ELASTIC MODULUS MPa	IMPACT STRENGTH KJ/m ²
EXAMPLE 1	CALCIUM HYDROXIDE	CALCIUM 12-HYDROXYSTEARATE	LLDPE	O			481	14	700	NOT BROKEN
EXAMPLE 2	CALCIUM OXIDE	CALCIUM 12-HYDROXYSTEARATE	LLDPE	O			475	13	698	NOT BROKEN
EXAMPLE 3	AMORPHOUS ALUMINOSILICATE	CALCIUM 12-HYDROXYSTEARATE	LLDPE	O			480	14	700	NOT BROKEN
EXAMPLE 4	BARIUM TITANATE	CALCIUM 12-HYDROXYSTEARATE	LLDPE	O			473	14	698	NOT BROKEN
EXAMPLE 5	LITHIUM SILICATE	CALCIUM 12-HYDROXYSTEARATE	LLDPE	O			477	12	698	NOT BROKEN
EXAMPLE 6	CALCIUM HYDROXIDE	PHOSPHATIDYLCHOLINE	LLDPE	O			480	11	700	NOT BROKEN
EXAMPLE 7	CALCIUM HYDROXIDE	OLEFIN/MALEIC ACID COPOLYMER SODIUM SALT	LLDPE	O			480	14	697	NOT BROKEN
EXAMPLE 8	AMORPHOUS ALUMINOSILICATE	PHOSPHATIDYLCHOLINE	LLDPE	O			480	9	250	240
EXAMPLE 9	AMORPHOUS ALUMINOSILICATE	SODIUM POLYACRYLATE	LLDPE	O			450	7	250	210
EXAMPLE 10	CALCIUM HYDROXIDE	POE30-10-ODES	LLDPE	O			460	14	710	NOT BROKEN
EXAMPLE 11	CALCIUM HYDROXIDE	CALCIUM 12-HYDROXYSTEARATE	PET	O			475	73	9120	3.8
EXAMPLE 12	CALCIUM HYDROXIDE	CALCIUM 12-HYDROXYSTEARATE	NYLON6	O			479	60	2500	19
EXAMPLE 13	CALCIUM HYDROXIDE	CALCIUM 12-HYDROXYSTEARATE	PVC	O			482	58	3100	9.8
EXAMPLE 14	CALCIUM HYDROXIDE	CALCIUM 12-HYDROXYSTEARATE	PS	O			480	59	2610	2.1
EXAMPLE 15	CALCIUM HYDROXIDE	CALCIUM 12-HYDROXYSTEARATE	LLDPE		O		481	14	700	NOT BROKEN
EXAMPLE 16	AMORPHOUS ALUMINOSILICATE	PHOSPHATIDYLCHOLINE	LLDPE		O		460	8	240	200
EXAMPLE 17	CALCIUM HYDROXIDE	CALCIUM 12-HYDROXYSTEARATE	LLDPE			O	478	14	700	NOT BROKEN
EXAMPLE 18	AMORPHOUS ALUMINOSILICATE	PHOSPHATIDYLCHOLINE	LLDPE			O	480	10	230	250
EXAMPLE 19	COCONUT MESOCARP FIBER	CALCIUM 12-HYDROXYSTEARATE	LLDPE			O	476	13	680	NOT BROKEN

FIG.36

NUMBER	CARBON DIOXIDE ABSORBENT	DISPERSION AID	RESIN	DISPERSION TREATMENT METHOD			EVALUATION RESULT			
				SUPER CRITICAL FLUID TREATMENT	ULTRASONIC IRRADIATION TREATMENT	STIRRING TREATMENT	CARBON DIOXIDE EMISSION AMOUNT	TENSILE YIELD STRESS	BENDING ELASTIC MODULUS	IMPACT STRENGTH
COMPARATIVE EXAMPLE 1	CALCIUM HYDROXIDE	CALCIUM 12-HYDROXYSTEARATE	LLDPE	-	-	-	994	8	650	78
COMPARATIVE EXAMPLE 2	CALCIUM OXIDE	CALCIUM 12-HYDROXYSTEARATE	LLDPE	-	-	-	1000	7	630	70
COMPARATIVE EXAMPLE 3	AMORPHOUS ALUMINOSILICATE	CALCIUM 12-HYDROXYSTEARATE	LLDPE	-	-	-	1100	3	200	80
COMPARATIVE EXAMPLE 4	BARIUM TITANATE	CALCIUM 12-HYDROXYSTEARATE	LLDPE	-	-	-	1050	8	640	75
COMPARATIVE EXAMPLE 5	LITHIUM SILICATE	CALCIUM 12-HYDROXYSTEARATE	LLDPE	-	-	-	1025	6	610	72
COMPARATIVE EXAMPLE 6	CALCIUM HYDROXIDE	PHOSPHATIDYLCHOLINE	LLDPE	-	-	-	1010	5	190	90
COMPARATIVE EXAMPLE 7	CALCIUM HYDROXIDE	OLEFIN/MALEIC ACID COPOLYMER SODIUM SALT	LLDPE	-	-	-	995	8	650	80
COMPARATIVE EXAMPLE 8	AMORPHOUS ALUMINOSILICATE	PHOSPHATIDYLCHOLINE	LLDPE	-	-	-	990	4	180	80
COMPARATIVE EXAMPLE 9	AMORPHOUS ALUMINOSILICATE	SODIUM POLYACRYLATE	LLDPE	-	-	-	1000	4	220	100
COMPARATIVE EXAMPLE 10	CALCIUM HYDROXIDE	POE30-10-ODES	LLDPE	-	-	-	995	8	660	89
COMPARATIVE EXAMPLE 11	CALCIUM HYDROXIDE	CALCIUM 12-HYDROXYSTEARATE	PET	-	-	-	990	70	9000	3
COMPARATIVE EXAMPLE 12	CALCIUM HYDROXIDE	CALCIUM 12-HYDROXYSTEARATE	NYLON6	-	-	-	997	55	2300	16
COMPARATIVE EXAMPLE 13	CALCIUM HYDROXIDE	CALCIUM 12-HYDROXYSTEARATE	PVC	-	-	-	989	47	2800	7.1
COMPARATIVE EXAMPLE 14	CALCIUM HYDROXIDE	CALCIUM 12-HYDROXYSTEARATE	PS	-	-	-	1010	51	2450	1.7
COMPARATIVE EXAMPLE 15	SAME AS IN COMPARATIVE EXAMPLE 1 WITH RESPECT TO ALL ITEMS									
COMPARATIVE EXAMPLE 16	SAME AS IN COMPARATIVE EXAMPLE 8 WITH RESPECT TO ALL ITEMS									
COMPARATIVE EXAMPLE 17	SAME AS IN COMPARATIVE EXAMPLE 1 WITH RESPECT TO ALL ITEMS									
COMPARATIVE EXAMPLE 18	SAME AS IN COMPARATIVE EXAMPLE 8 WITH RESPECT TO ALL ITEMS									
COMPARATIVE EXAMPLE 19	COCONUT MESOCARP FIBER	CALCIUM 12-HYDROXYSTEARATE	LLDPE	-	-	-	990	7	610	70

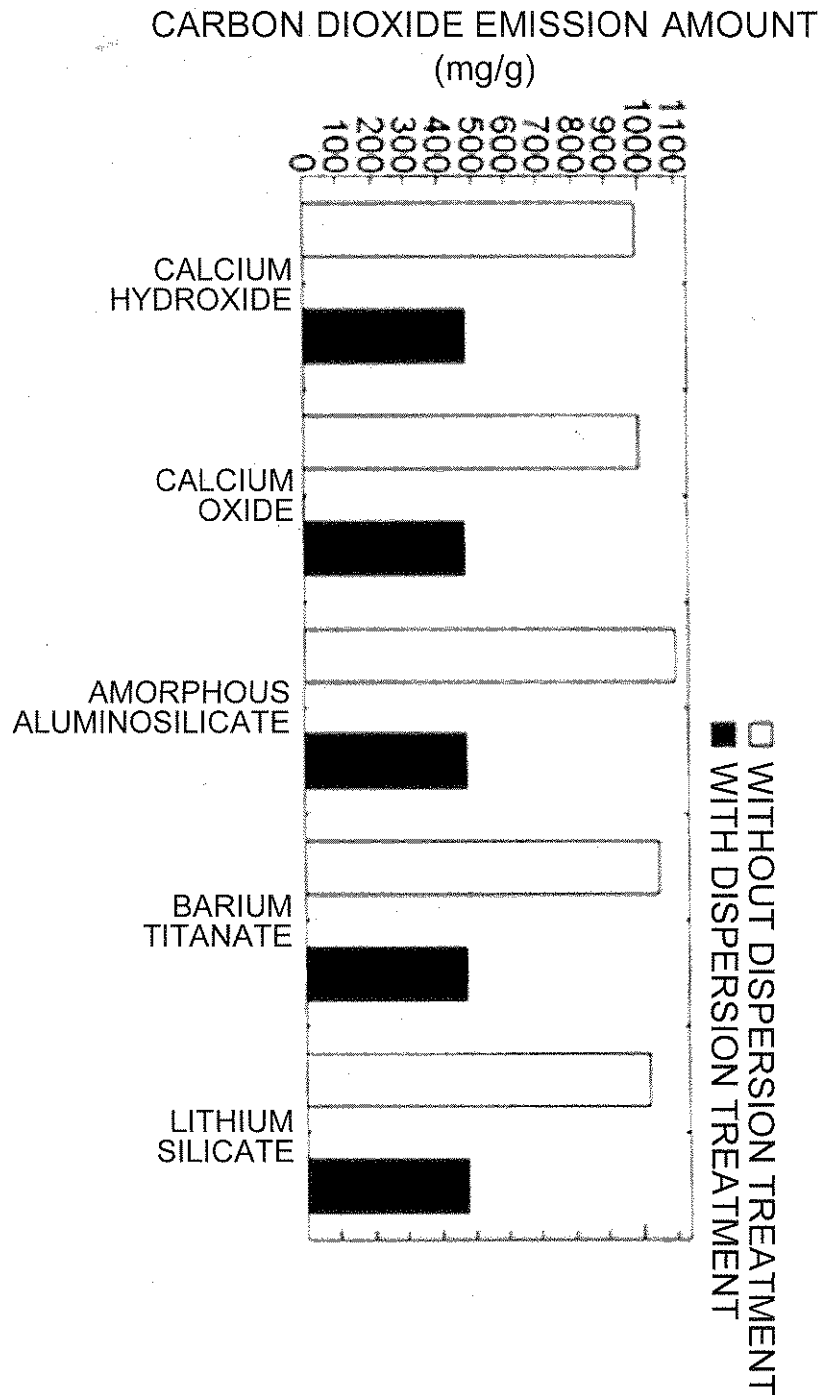
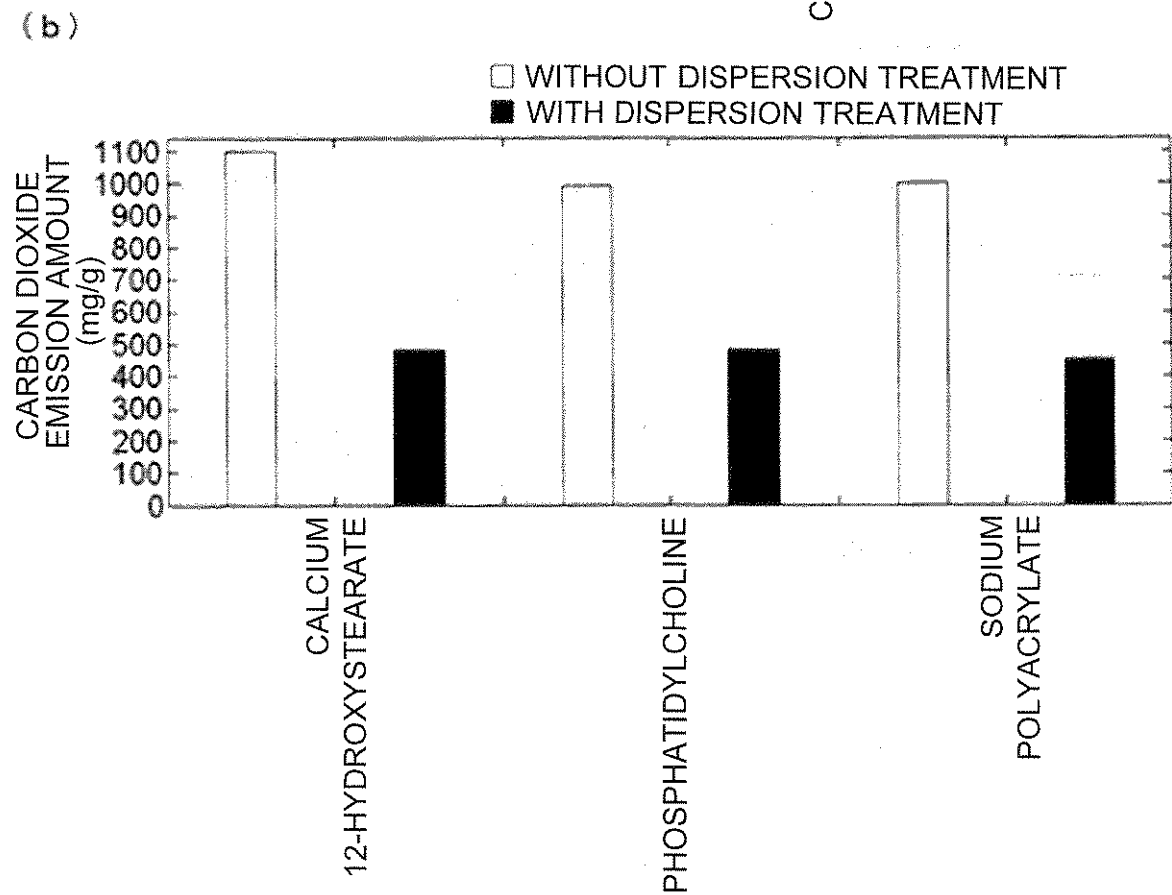
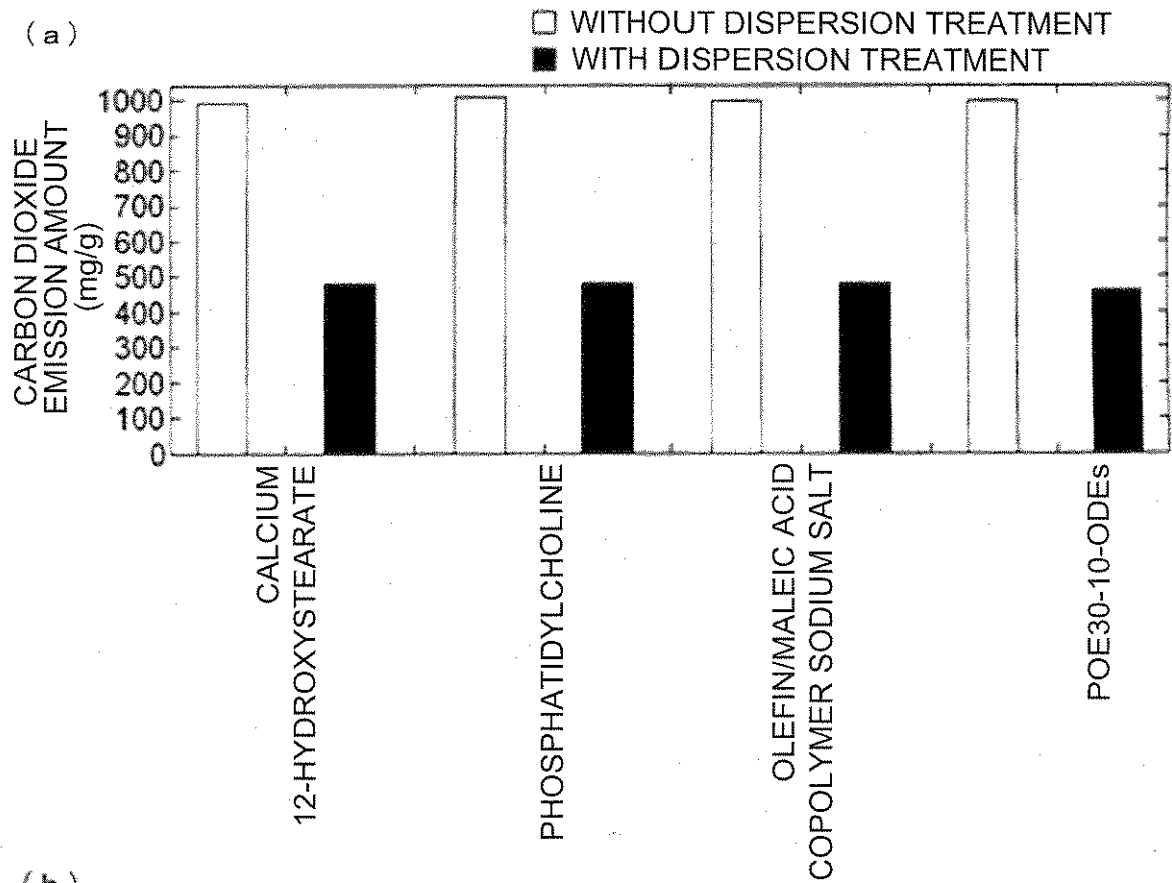


FIG.37

FIG.38



CARBON DIOXIDE EMISSION AMOUNT
(mg/g)

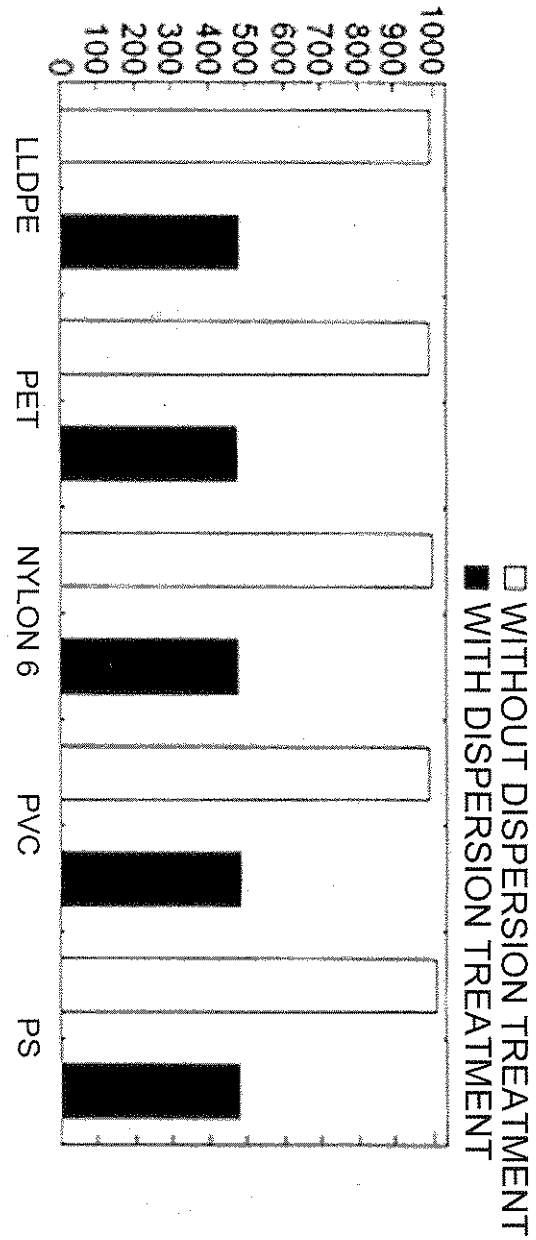
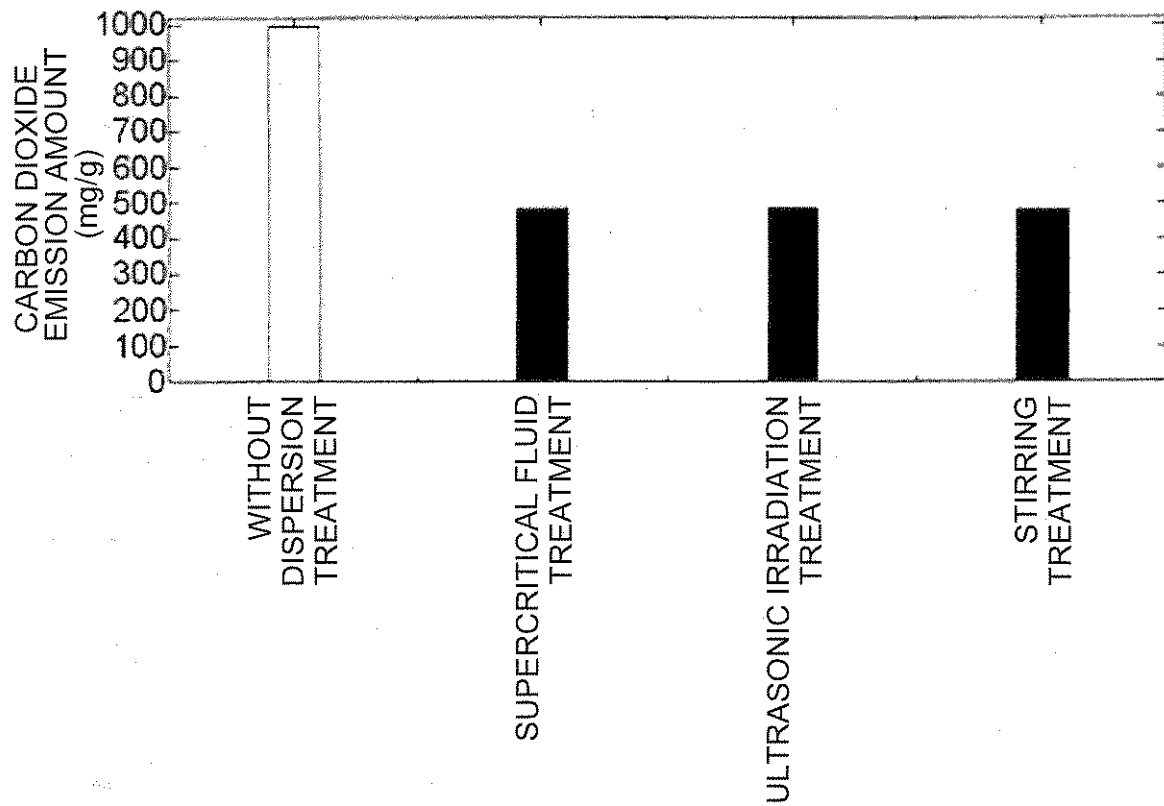


FIG.39

FIG.40

(a)



(b)

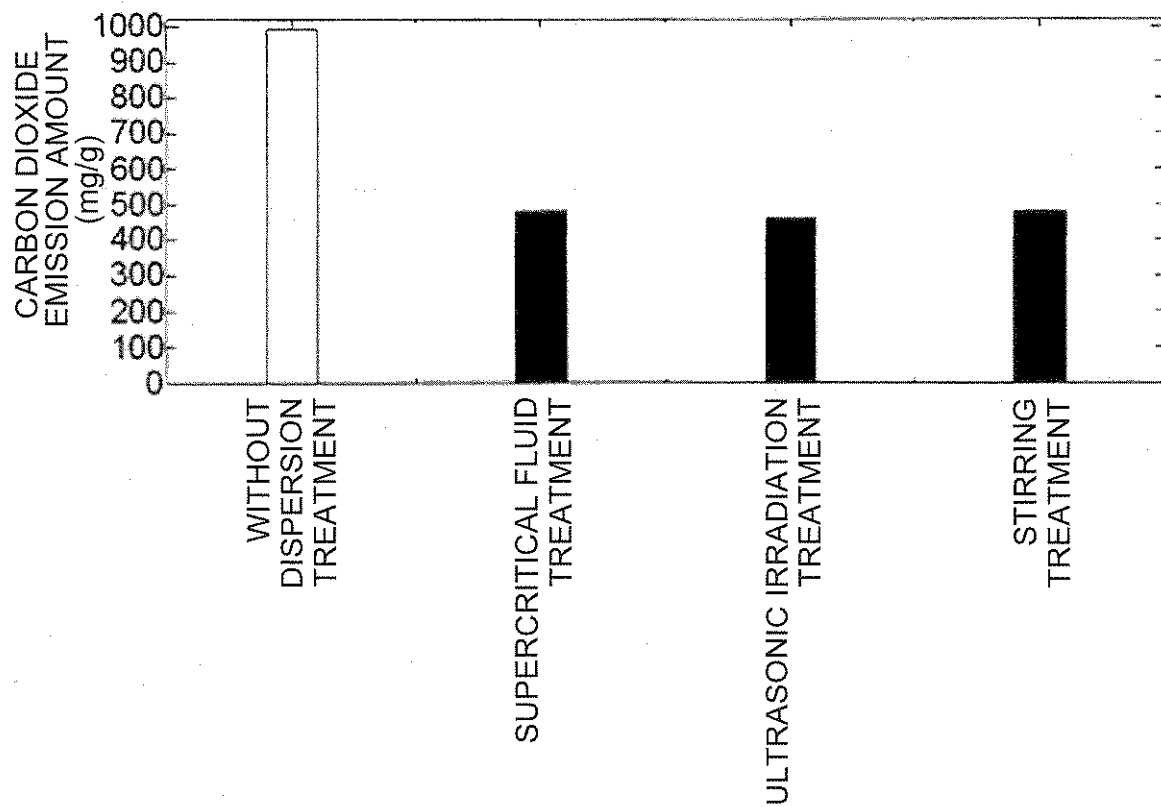


FIG.41

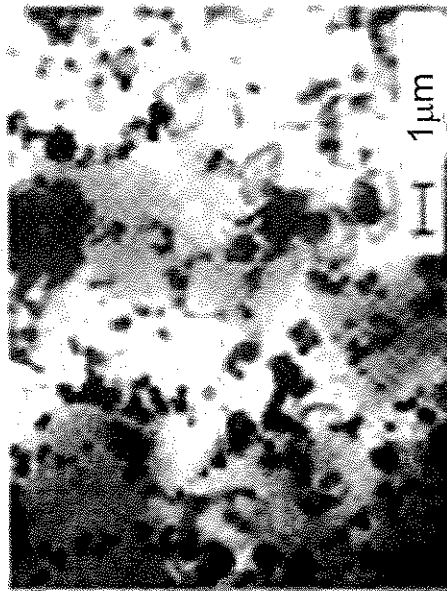


FIG.42

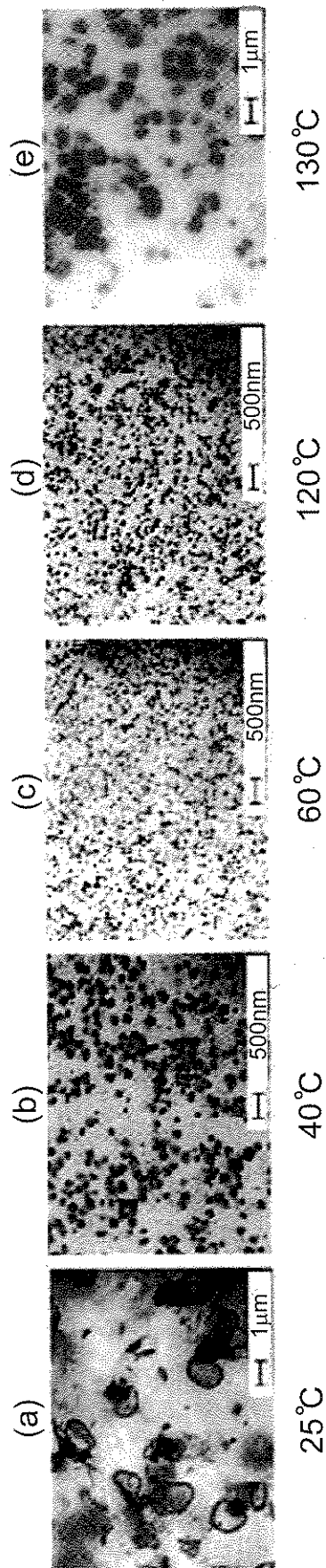


FIG.43

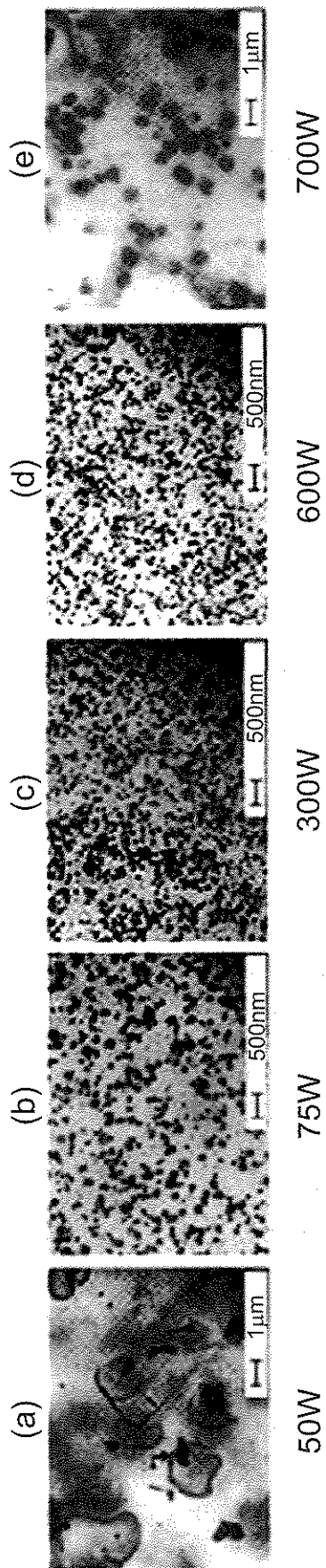


FIG.44

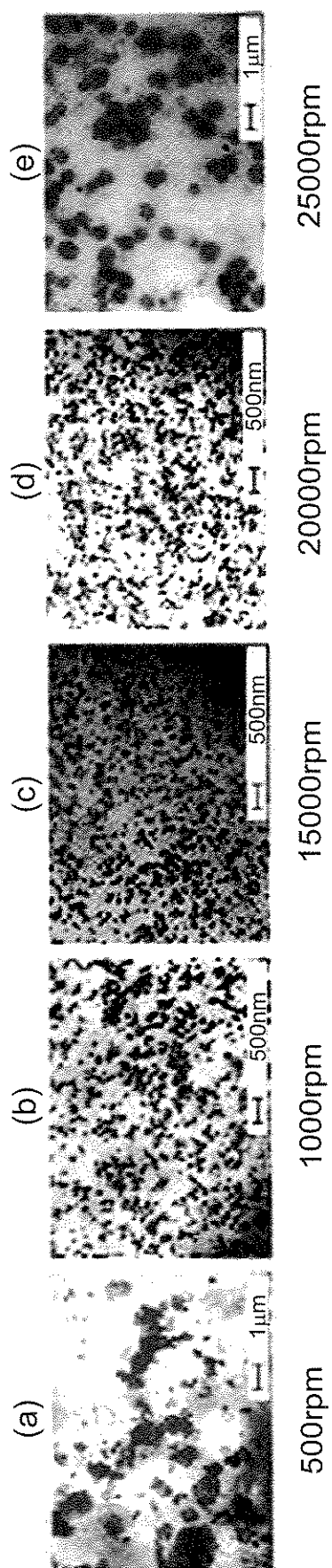


FIG.45

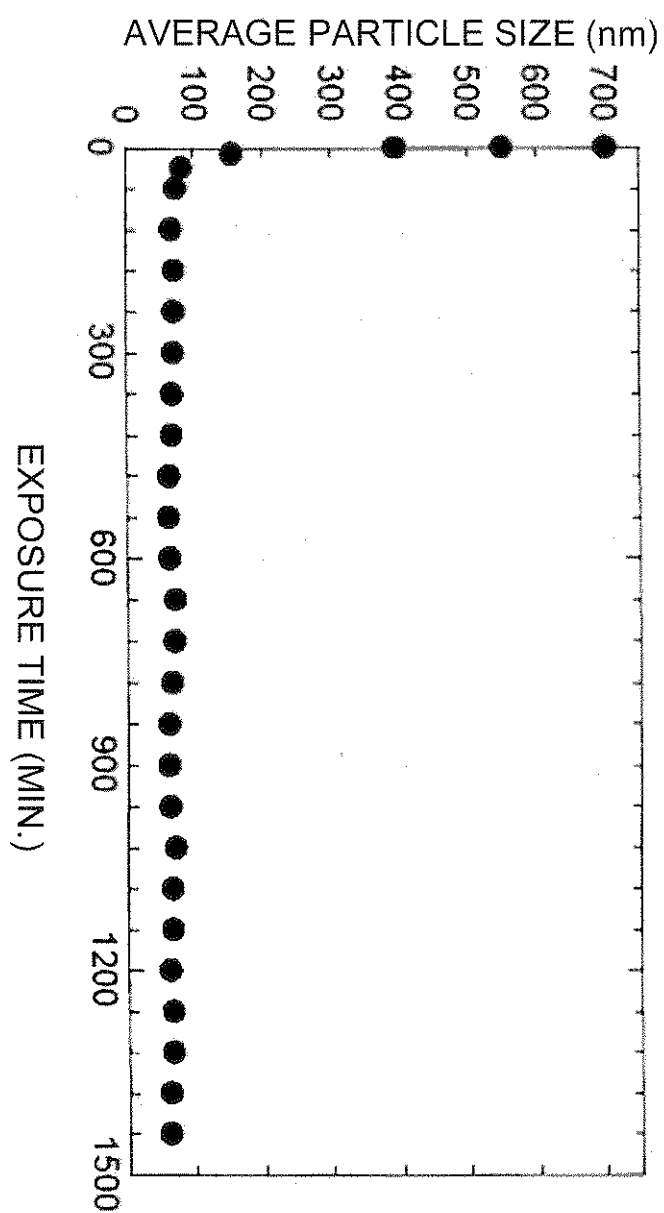


FIG.46

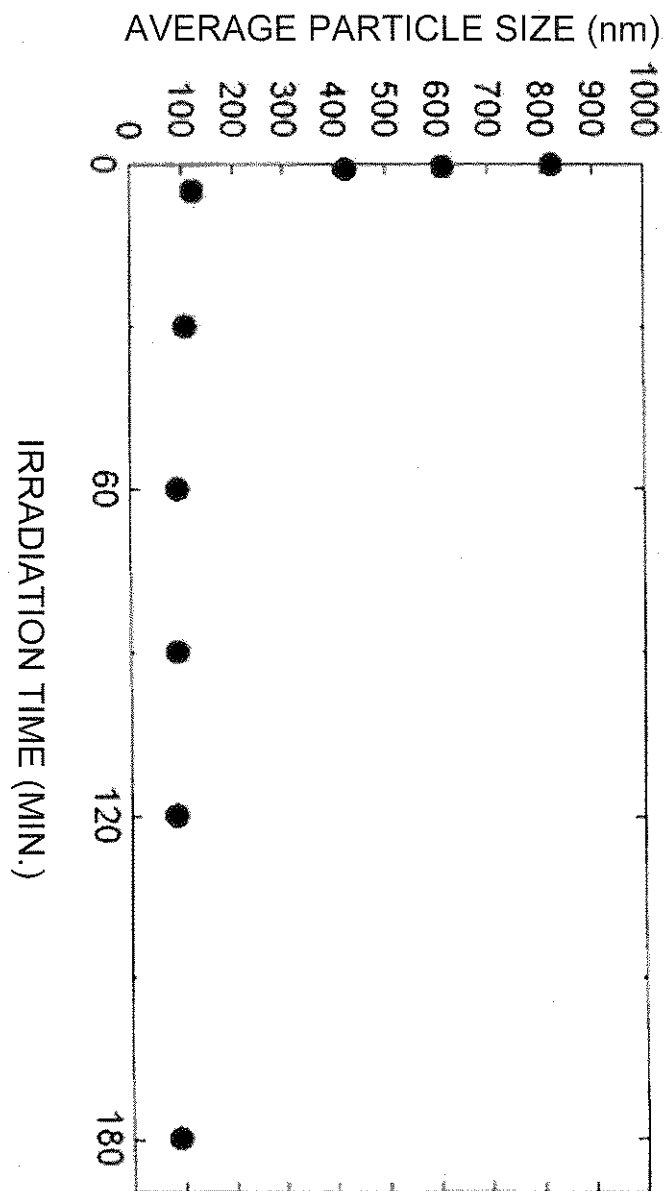


FIG.47

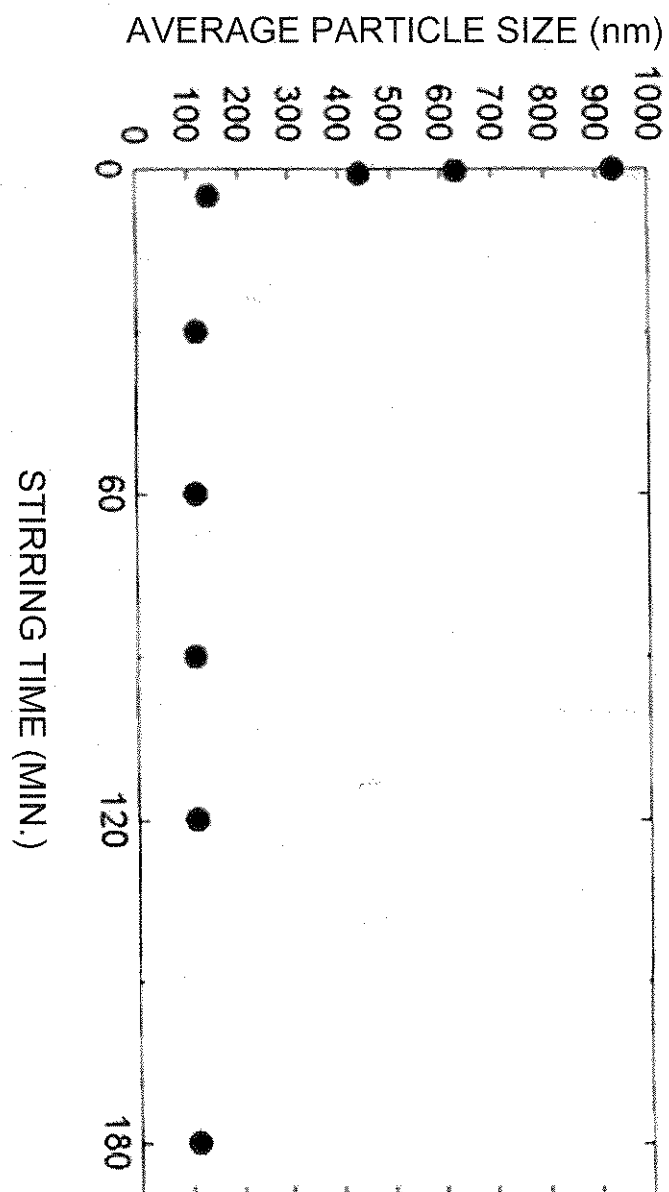


FIG.48

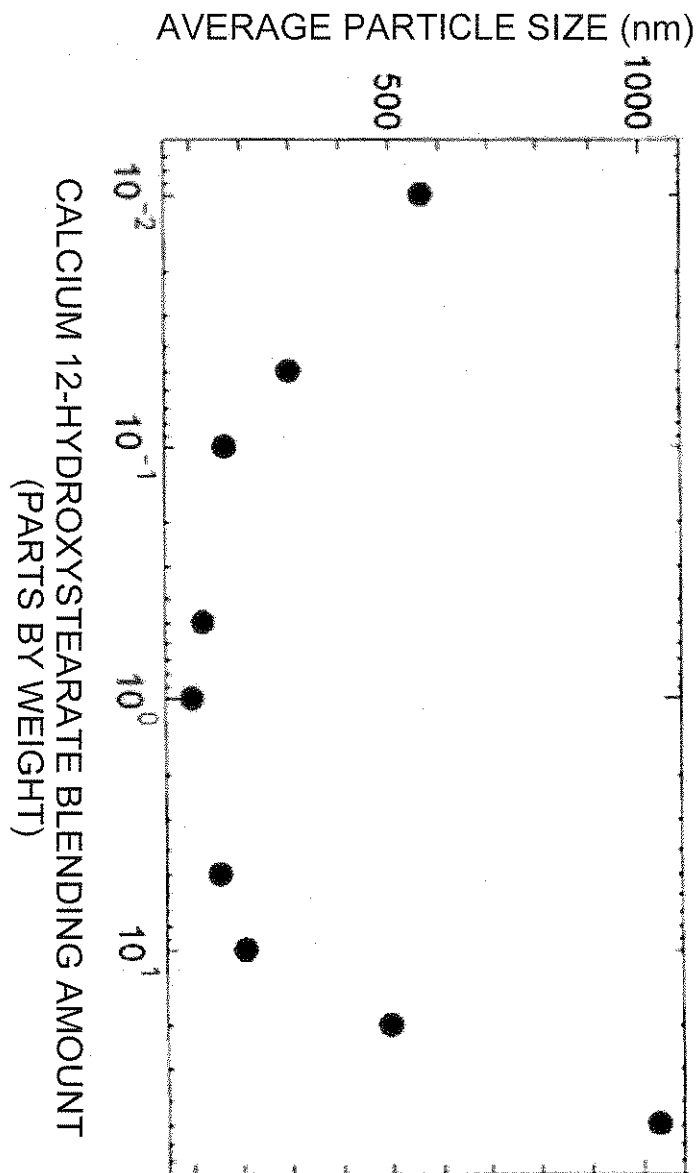


FIG.49

