

FIG. 1

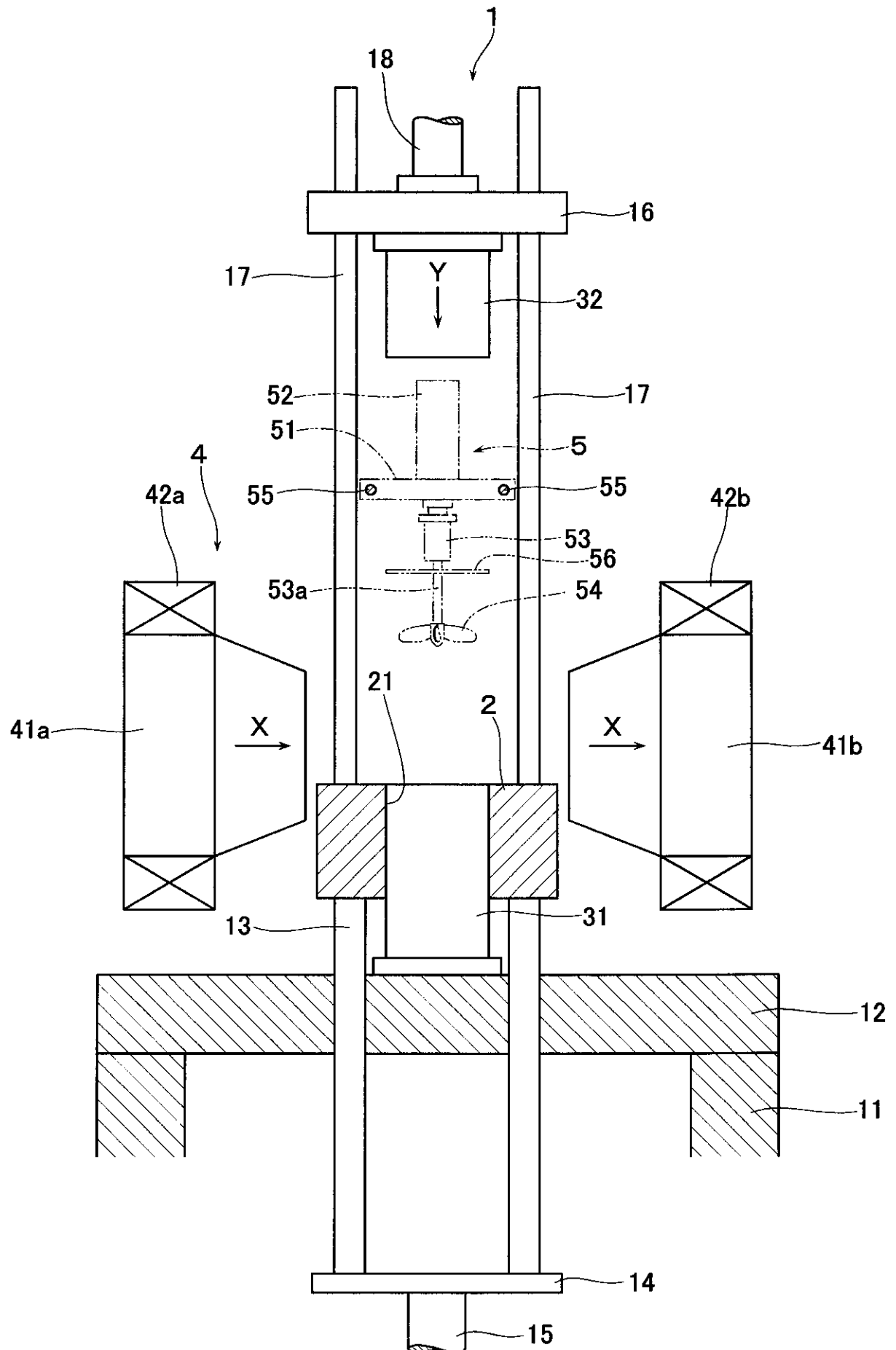


FIG.2

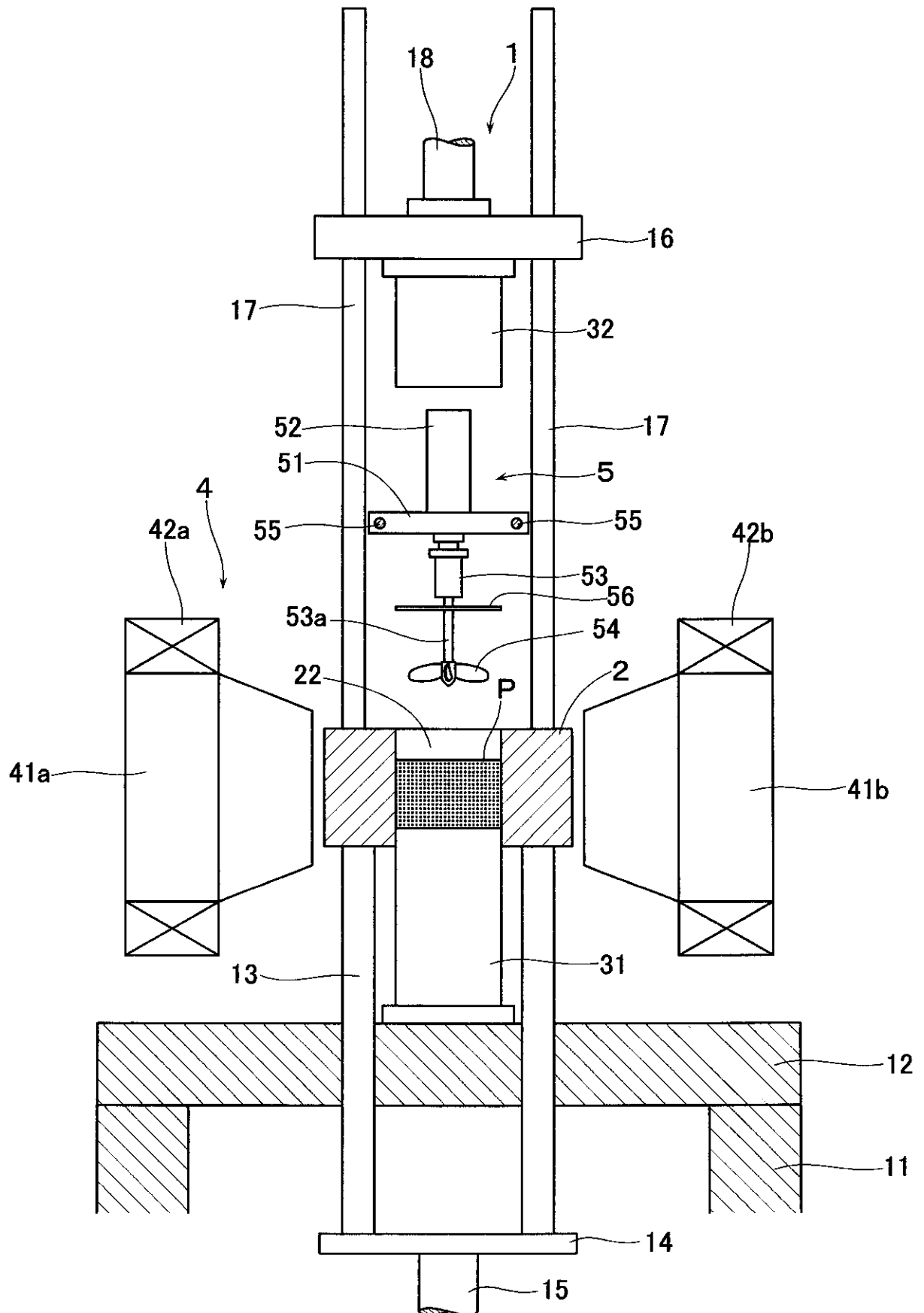


FIG.3

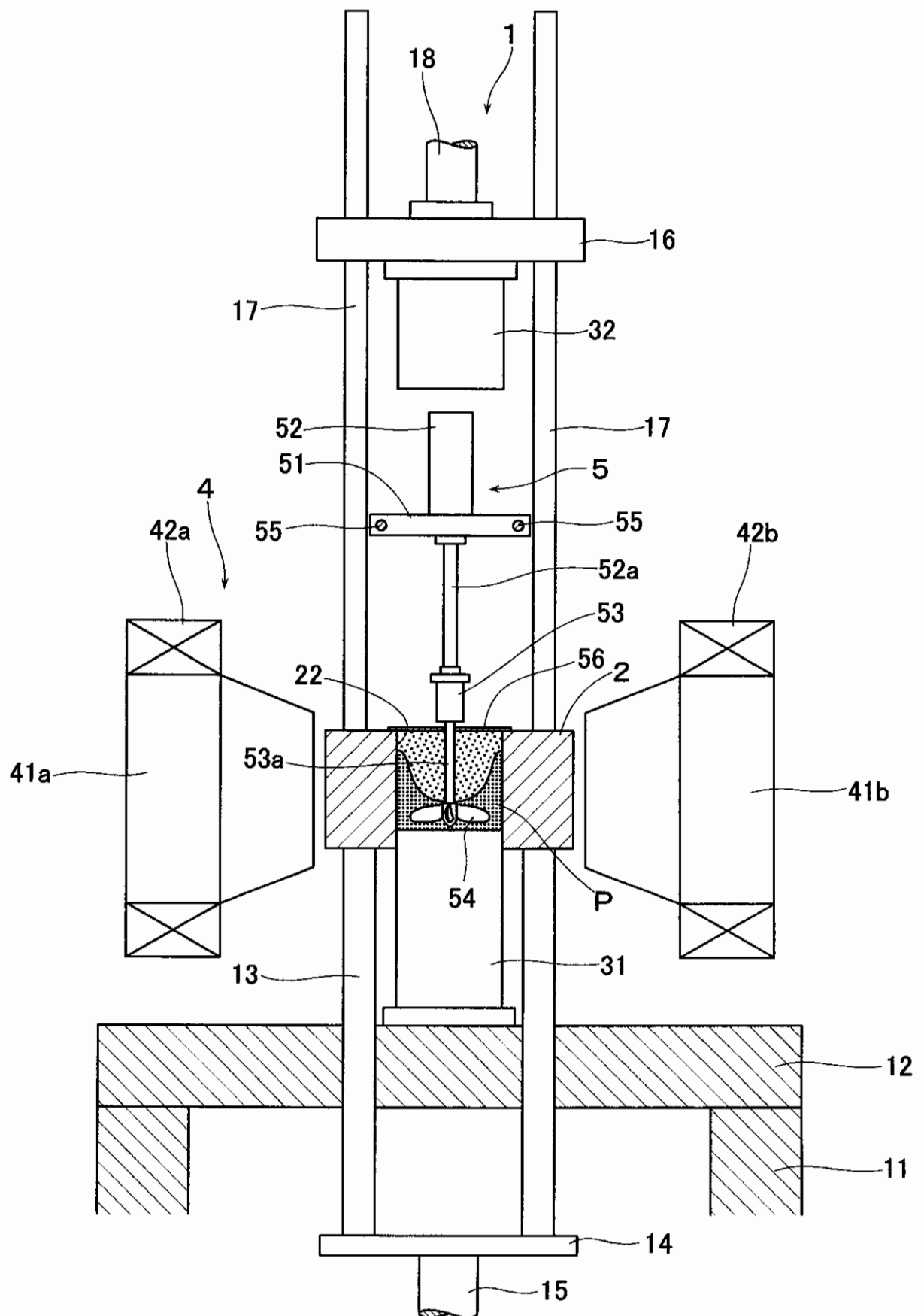


FIG.4A

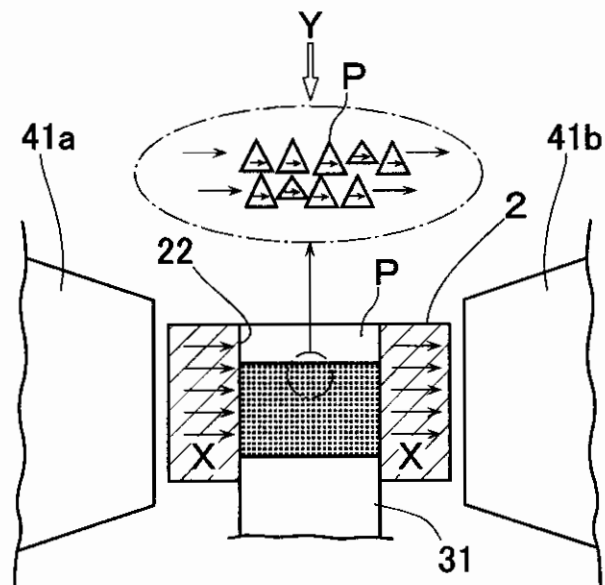


FIG.4B

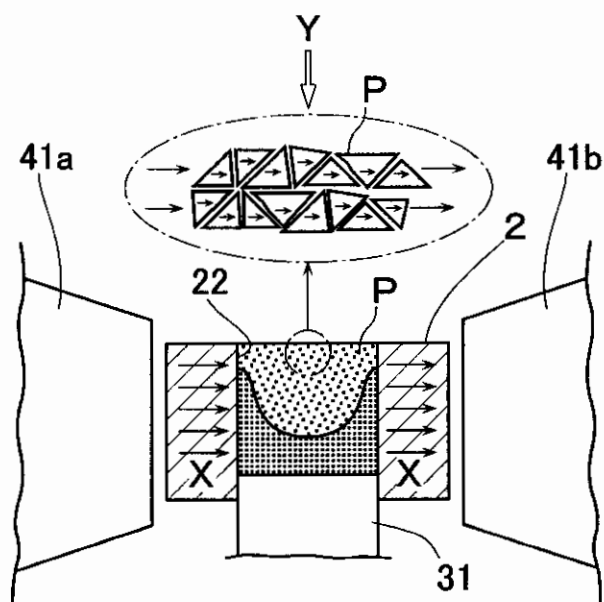


FIG.5

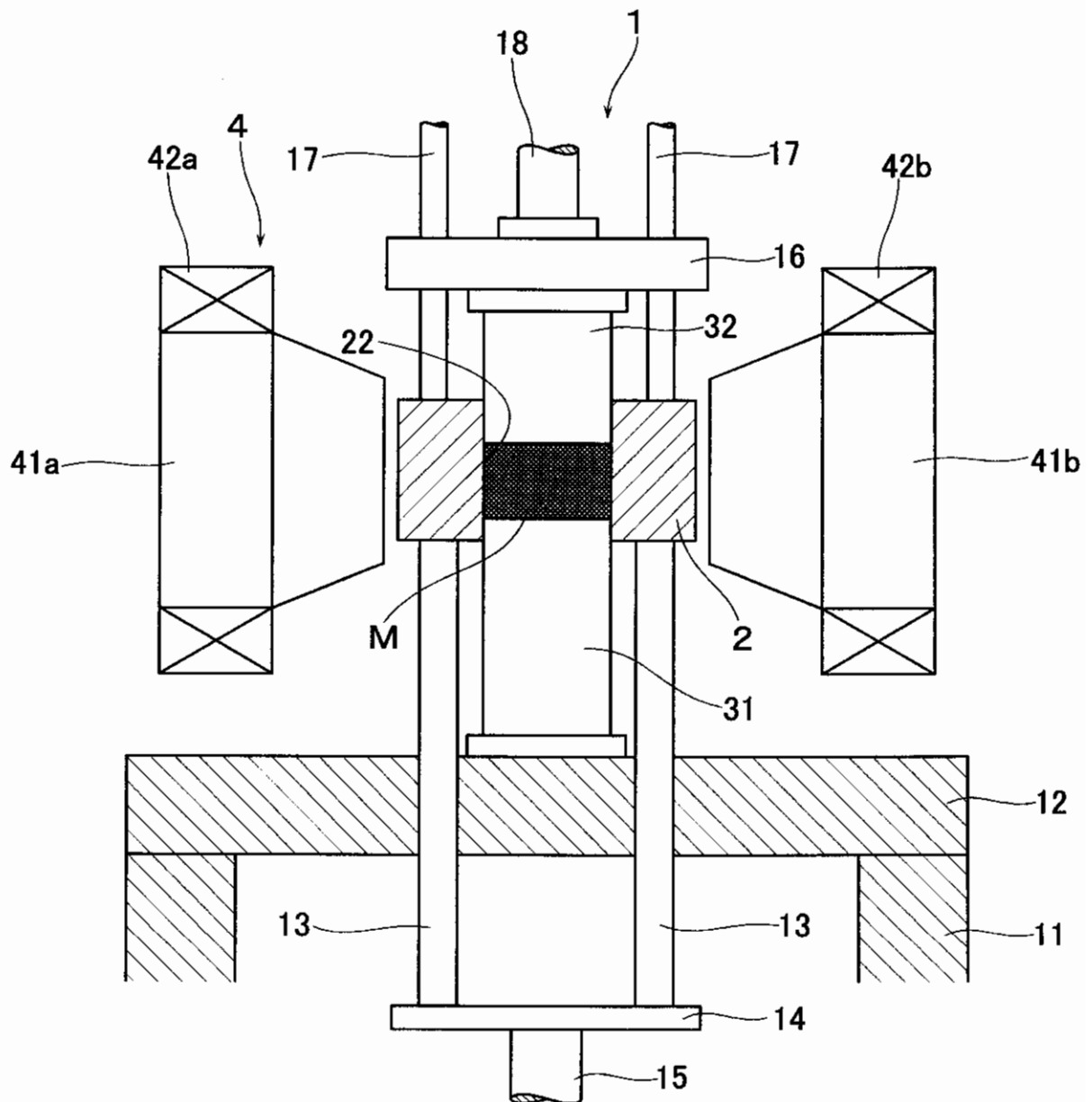


FIG.6

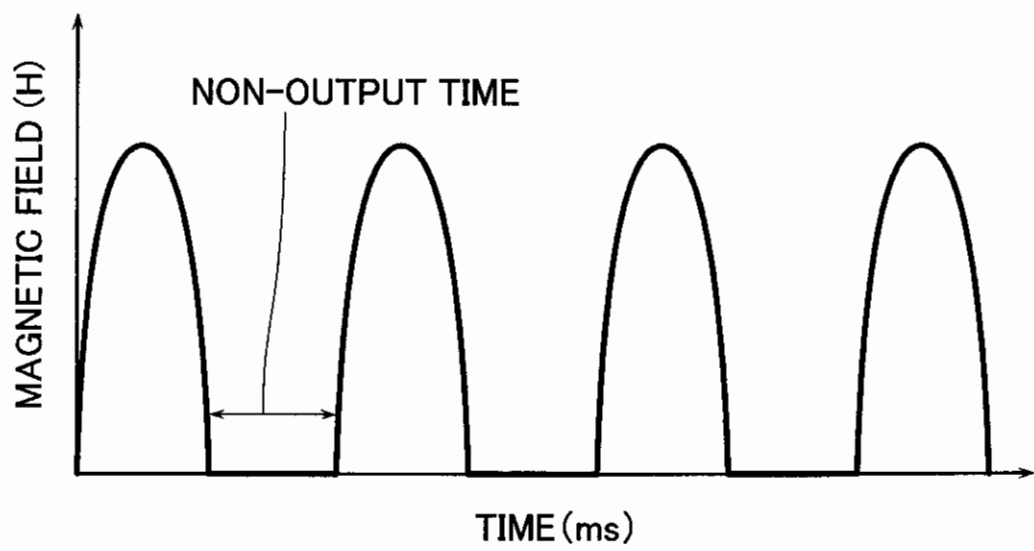


FIG.7

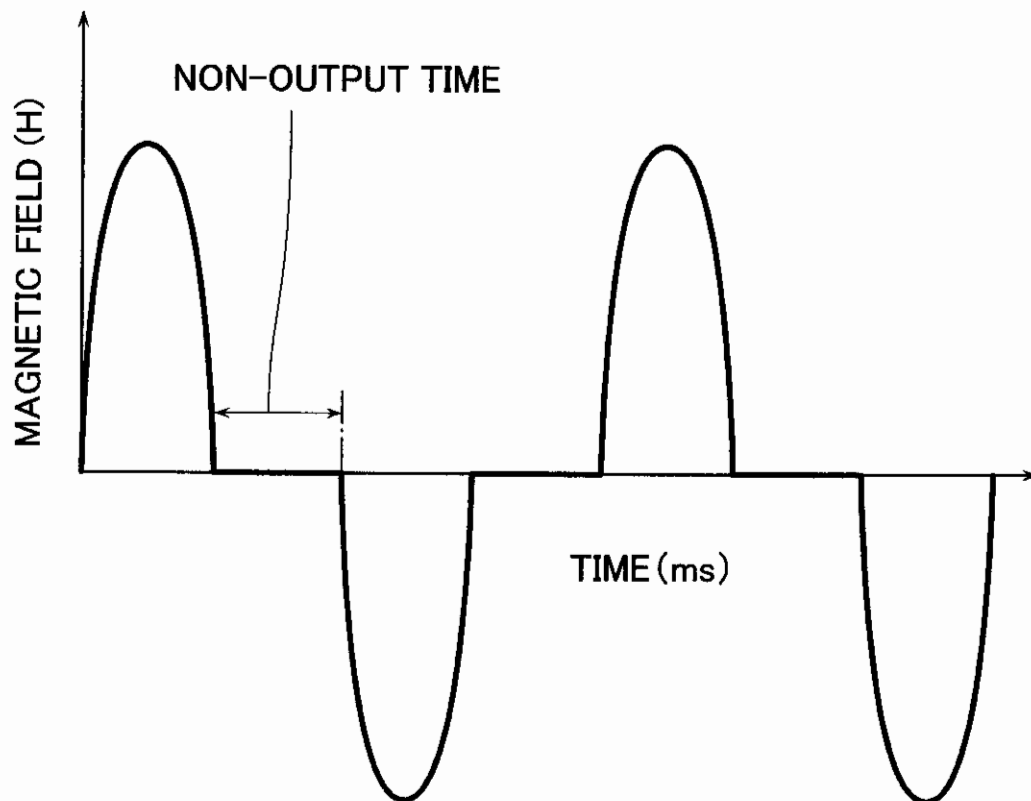
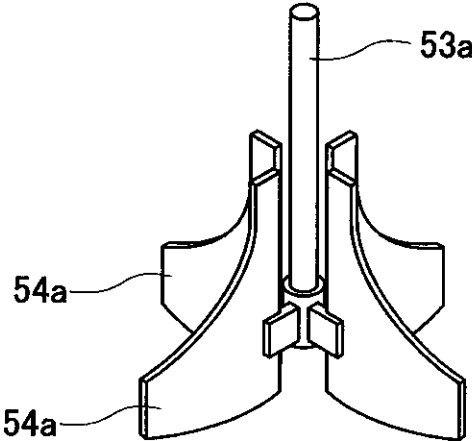
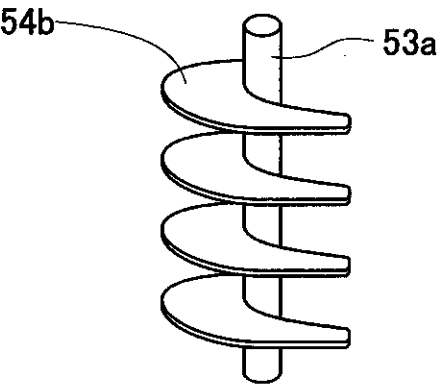


FIG.8A



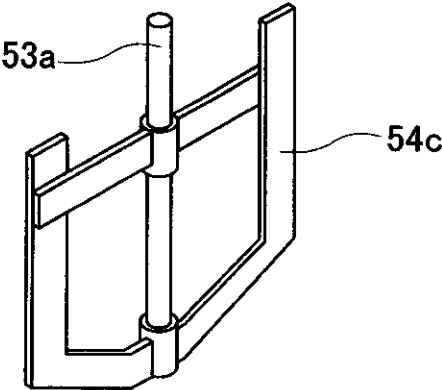
PADDLE VANE

FIG.8B



RIBBON VANE

FIG.8C



ANCHOR VANE

FIG.9

	ROTARY AGITATION	HORIZONTAL AGITATION	MOLDING METHOD	MAGNETIC PROPERTIES OF JIG	ADDITION OF SOLID LUBRICANT	ADDITION OF LIQUID LUBRICANT	METHOD OF MOLDING ALLOY RAW MATERIAL	Br(kG)	Bi _{max} (MG0e)	iH _c (kOe)	ORIENTATION (%)
COMPARATIVE EXAMPLE	NO			—				13.9	46.8	14.2	92
EXAMPLE	YES	NO	UNIAXIAL PRESSURIZING	NON-MAGNETIC	NO			14.5	51.5	14.0	96
EXAMPLE	NO	YES		NON-MAGNETIC				14.5	51.2	14.1	96
EXAMPLE	YES		ISOSTATIC	MAGNETIC				14.2	42.7	14.2	94
EXAMPLE				NON-MAGNETIC				14.7	53.0	14.1	97
COMPARATIVE EXAMPLE	NO			—	YES			13.9	47.5	14.2	93
EXAMPLE	YES			NON-MAGNETIC				14.8	53.7	14.0	98
COMPARATIVE EXAMPLE	NO	NO	UNIAXIAL PRESSURIZING	—	NO			13.9	47.5	14.2	93
EXAMPLE	YES			NON-MAGNETIC				14.8	53.8	14.0	98
COMPARATIVE EXAMPLE	NO			—		YES		13.7	45.8	14.2	91
EXAMPLE	YES			NON-MAGNETIC			STRIP CASTING	14.9	54.4	14.0	98
EXAMPLE	YES			NON-MAGNETIC				14.9	54.2	14.0	98
EXAMPLE	YES		ISOSTATIC	NON-MAGNETIC			CENTRIFUGAL CASTING	15.2	57.0	14.0	99.8

FIG.10

	ROTARY AGITATION	MOLDING PRESSURE (t/cm ²)	REJECTION RATE DUE TO CRACKS AND NOTCHES IN SINTERED BODY (%)	Br(kG)	BHmax (MG0e)	iHc(k0e)	ORIENTATION (%)
COMPARATIVE EXAMPLE	NO	0.05	45	14.1	48.7	14.0	94
		0.1	10	14	48.0	14.0	93
		0.2	8	13.9	47.3	14.1	92
		0.4	5	13.7	45.8	14.2	91
		0.6	4	13.7	45.5	14.2	91
		0.7	3	13.6	45.0	14.2	91
		0.8	2	13.6	44.8	14.2	91
		1	2	13.5	44.7	14.3	90
		2	1	13.5	44.5	14.3	90
THIS INVENTION	YES	0.05	8	15	55.2	14	99
		0.1	0	15	55	14	99
		0.2	0	14.9	54.8	14	98
		0.4	0	14.9	54.4	14	98
		0.6	0	14.8	53.7	14	98
		0.7	0	14.7	52.9	14	97
		0.8	0	14.6	52.2	14	97
		1	0	14.5	51.5	14	96
COMPARATIVE EXAMPLE		2	3	14.2	49.2	14	94

FIG.11

	KIND OF MAGNETIC FIELD	INTENSITY(kOe) OF ORIENTATION MAGNETIC FIELD(PEAK)	Br(kG)	BH _{max} (MG0e)	iH _c (kOe)	ORIENTATION (%)
	PULSE MAGNETIC FIELD	5	14.0	47.8	14.2	93
		7	14.1	48.7	14.2	94
		10	14.3	50.5	14.1	95
		13	14.5	51.2	14.1	96
		16	14.7	53.0	14.0	97
		20	14.8	54.5	14.0	97
		24	14.9	55.5	14.0	98
		30	14.9	55.8	14.0	98
		40	15.0	56.0	14.0	99
		50	15.0	56.2	14.0	99
COMPARATIVE EXAMPLE	STATIC MAGNETIC FIELD	3	14.1	48.5	14.2	94
		5	14.3	50.3	14.2	95
		7	14.5	51.0	14.1	96
		10	14.7	52.8	14.1	97
		13	14.8	53.2	14.0	98
		16	14.9	54.4	14.0	98
		20	15.0	56.1	14.0	99
		24	15.0	56.2	14.0	99
COMPARATIVE EXAMPLE		30	15.0	56.3	14.0	99

FIG.12

SOLID LUBRICANT	LIQUID LUBRICANT	Br(kG)	BH _{max} (MG0e)	iHc(k0e)	ORIENTATION (%)
0	0	14.2	49.5	14.3	95
0.01	0	14.3	49.8	14.2	95
0.02	0	14.3	50.5	14.2	96
0.04	0	14.7	52.7	14.1	97
0.08	0	14.8	54.5	14.0	98
0.1	0	14.9	55.0	14.0	99
0.2	0	15.0	46.4	9.3	99
0	0.02	14.2	49.8	14.2	95
0	0.05	14.3	50.3	14.1	96
0	0.1	14.8	53.2	14.0	98
0	0.5	14.8	53.5	14.0	99
0	1	14.9	55.4	14.0	99
0	3	15.0	56.3	14.0	99
0	5	15.0	54.2	13.8	99
0	10	15.0	49.2	9.5	99
0.04	0.05	15.0	55.4	14.0	99
0.02	0.1	15.0	56.0	14.0	99