

FIG. 1

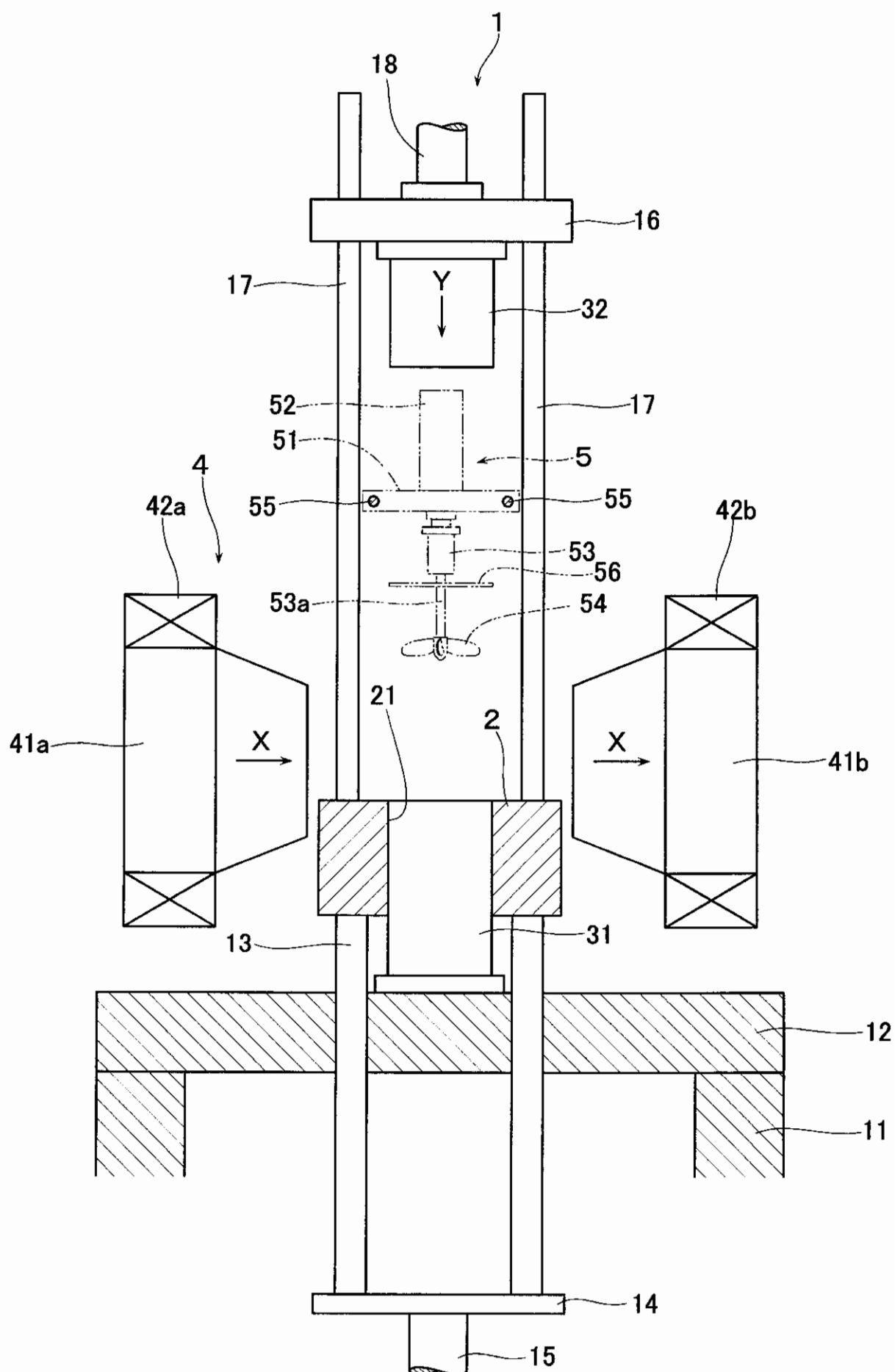


FIG.2

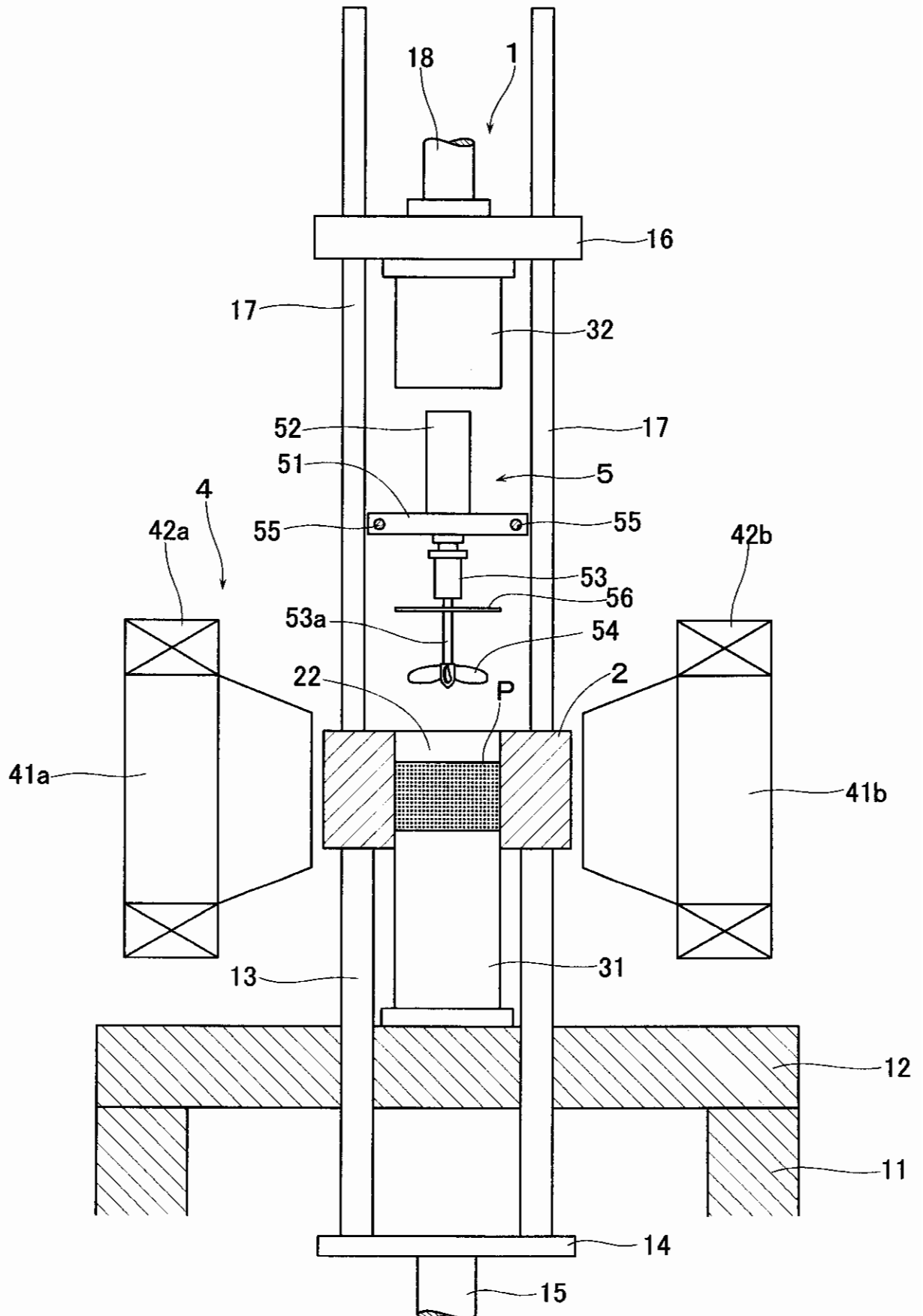


FIG.3

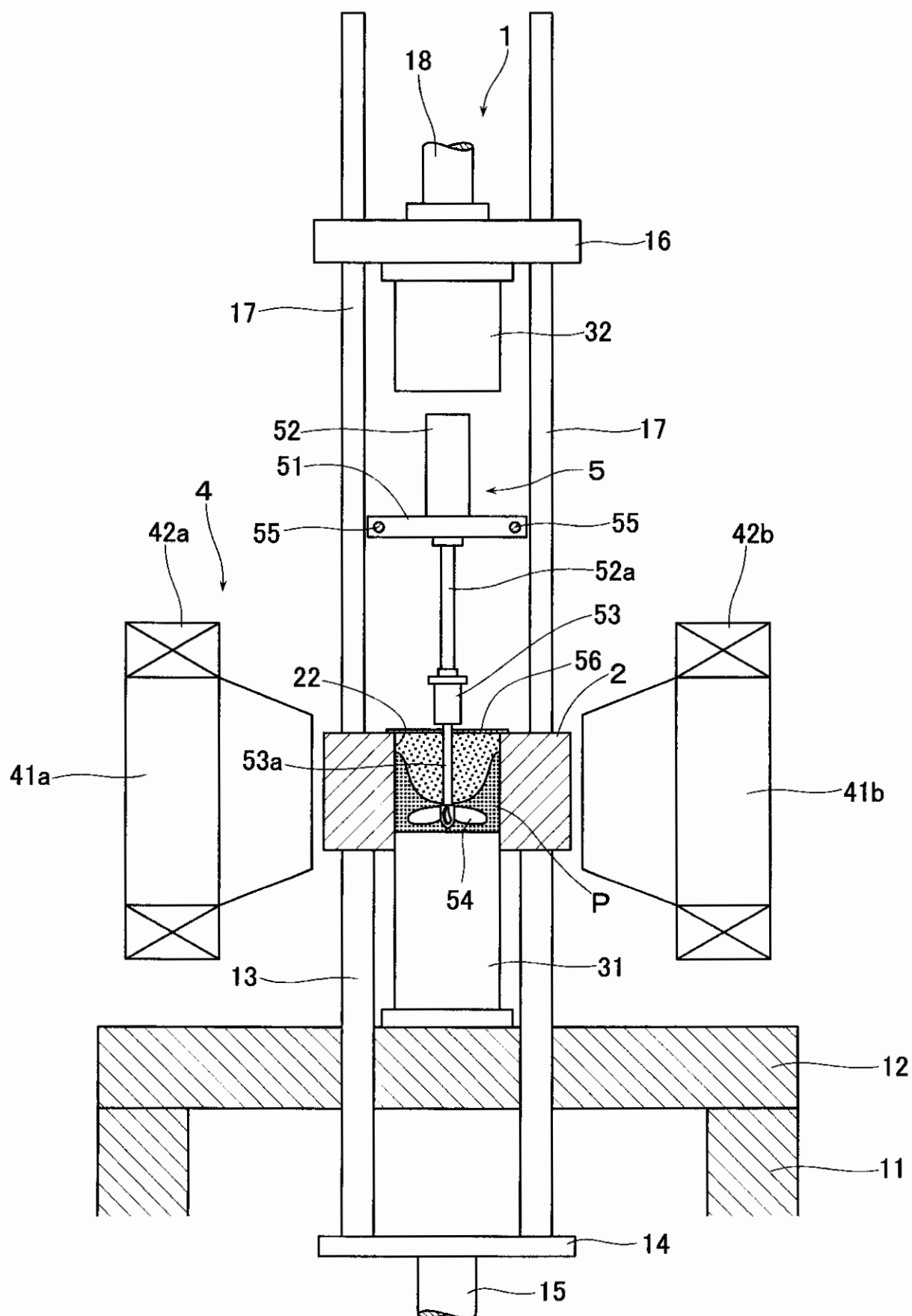


FIG.4A

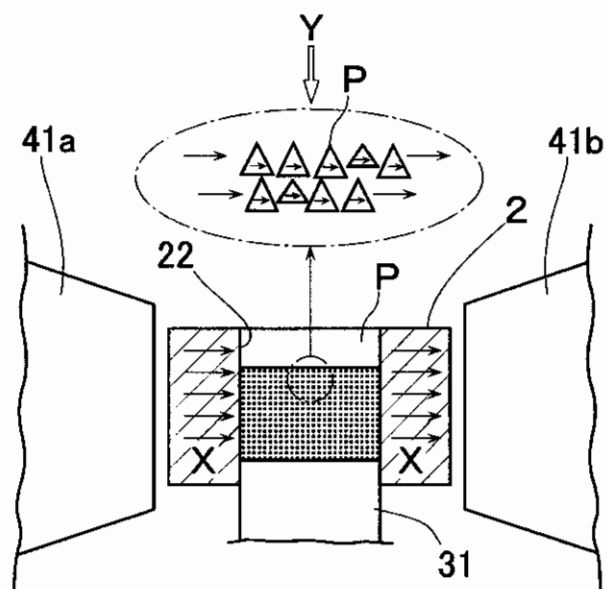


FIG.4B

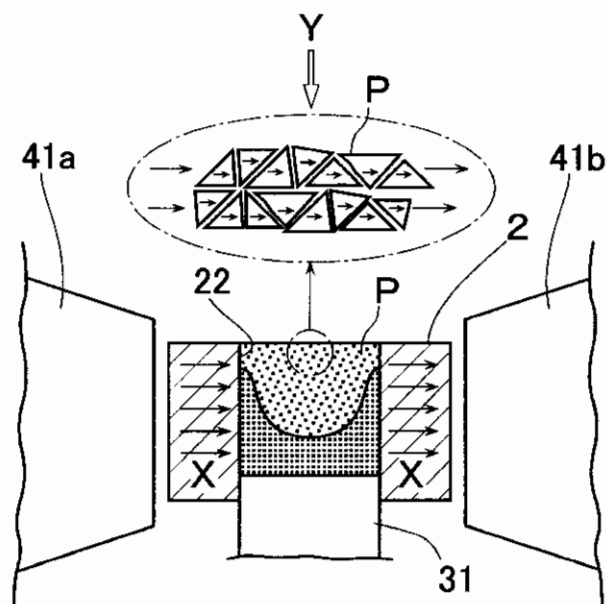


FIG.5

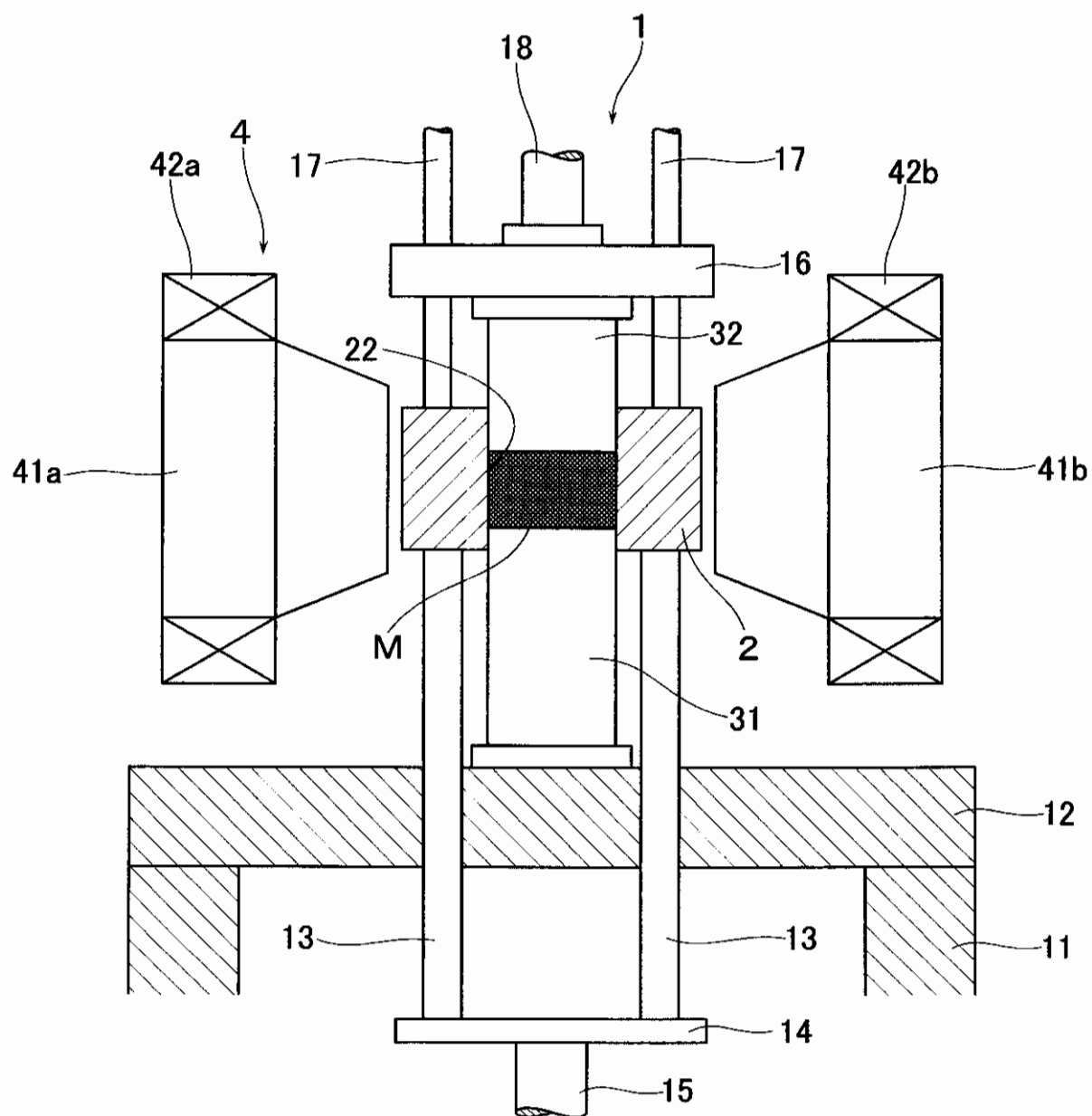


FIG.6

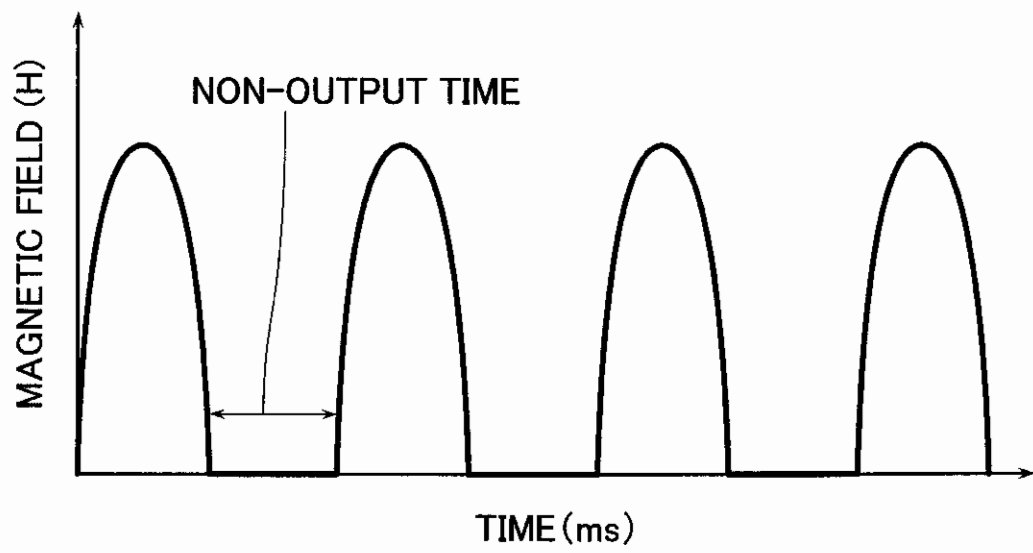


FIG.7

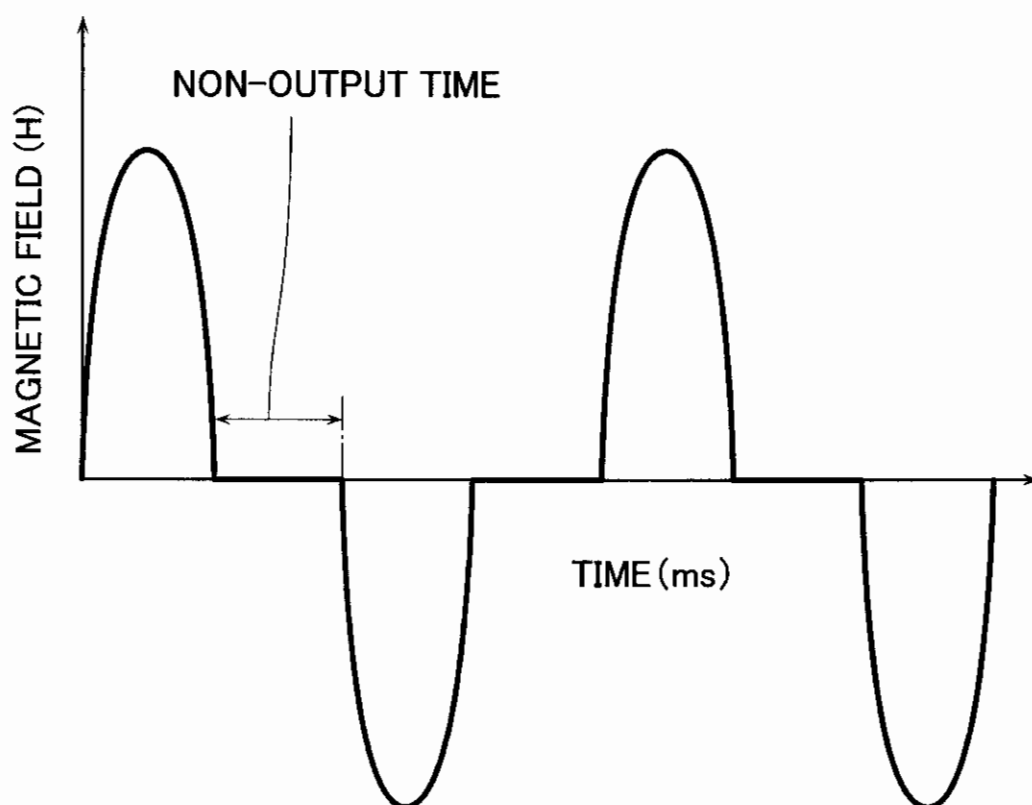
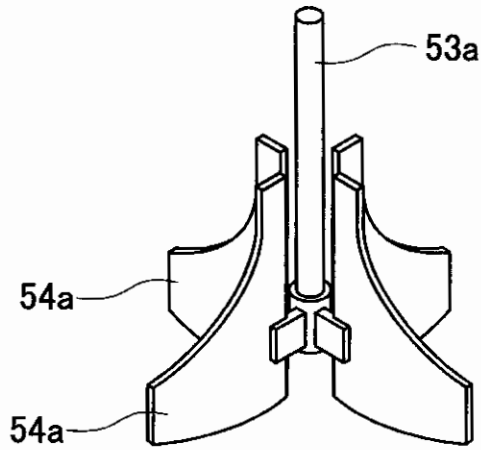
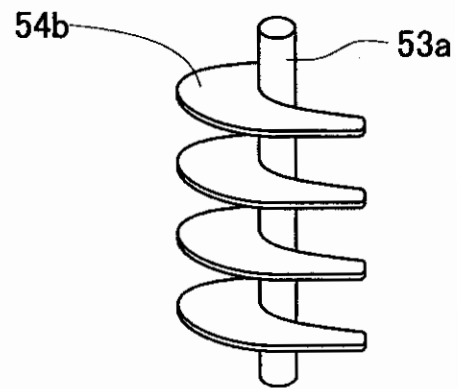


FIG.8A



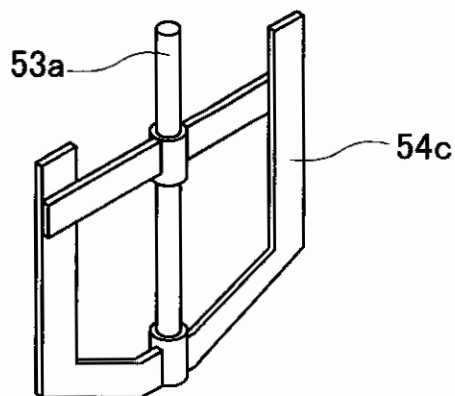
PADDLE VANE

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)	BH _{max} (MG0e)	iH _c (k0e)	ORIENTATION (%)				
COMPARATIVE EXAMPLE	NO		UNIAXIAL PRESSURIZING	—	NO	BOOK MOLD		13.9	46.8	14.2	92				
EXAMPLE	YES	NO		NON-MAGNETIC				NO	14.5	51.5	14.0	96			
EXAMPLE	NO	YES		NON-MAGNETIC					14.5	51.2	14.1	96			
EXAMPLE	YES		MAGNETIC	14.2					42.7	14.2	94				
EXAMPLE			NON-MAGNETIC	14.7	53.0				14.1	97					
COMPARATIVE EXAMPLE	NO	NO	UNIAXIAL PRESSURIZING	—	YES					13.9	47.5	14.2	93		
EXAMPLE	YES			NON-MAGNETIC						14.8	53.7	14.0	98		
COMPARATIVE EXAMPLE	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	NO	UNIAXIAL PRESSURIZING	—	YES					STRIP CASTING		13.7	45.8	14.2	91
EXAMPLE	YES			NON-MAGNETIC								14.9	54.4	14.0	98
EXAMPLE	YES			NON-MAGNETIC								14.9	54.2	14.0	98
EXAMPLE	YES			NON-MAGNETIC		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)	BHmax (MG0e)	iHc(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