

Fig.1

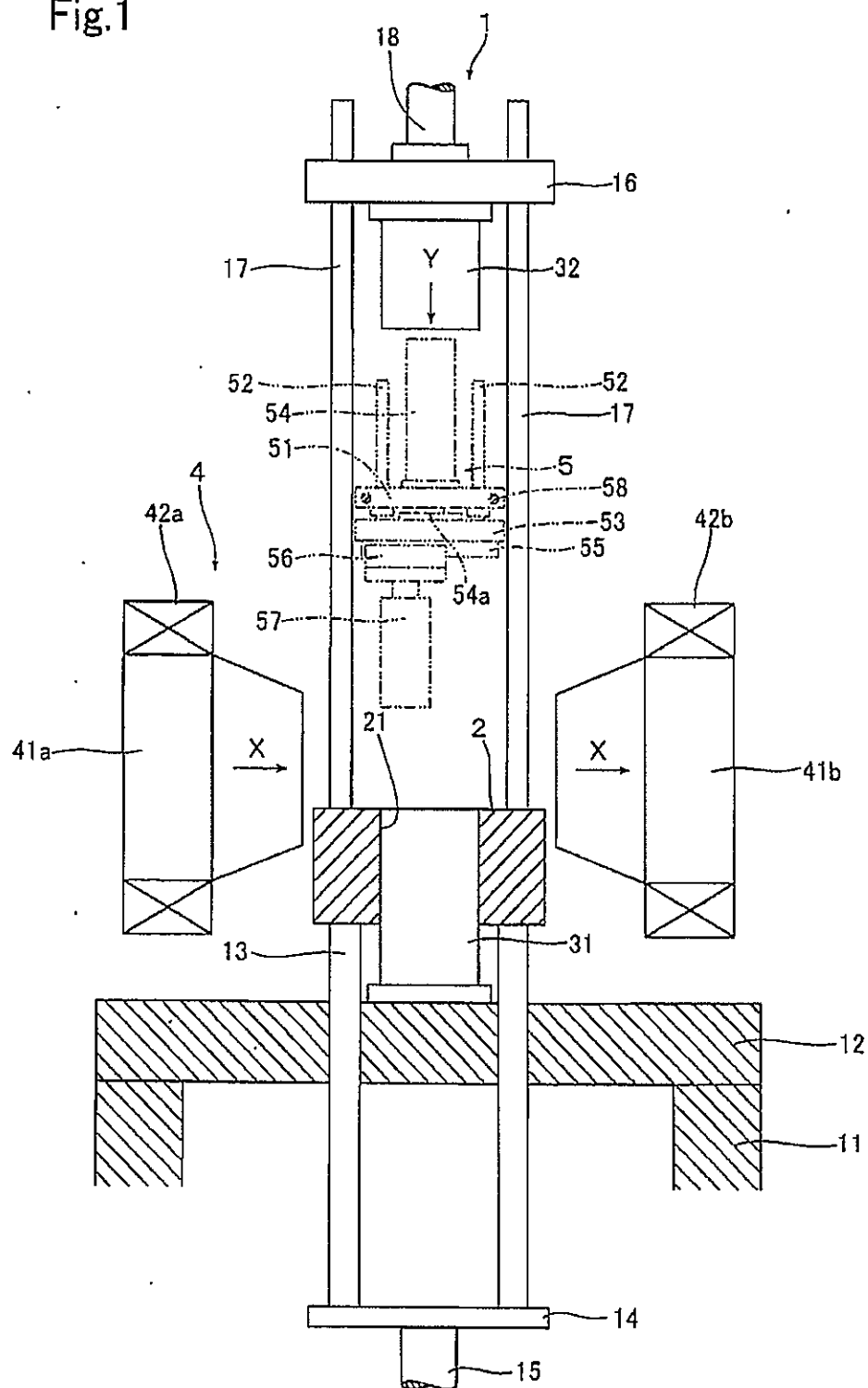


Fig.2

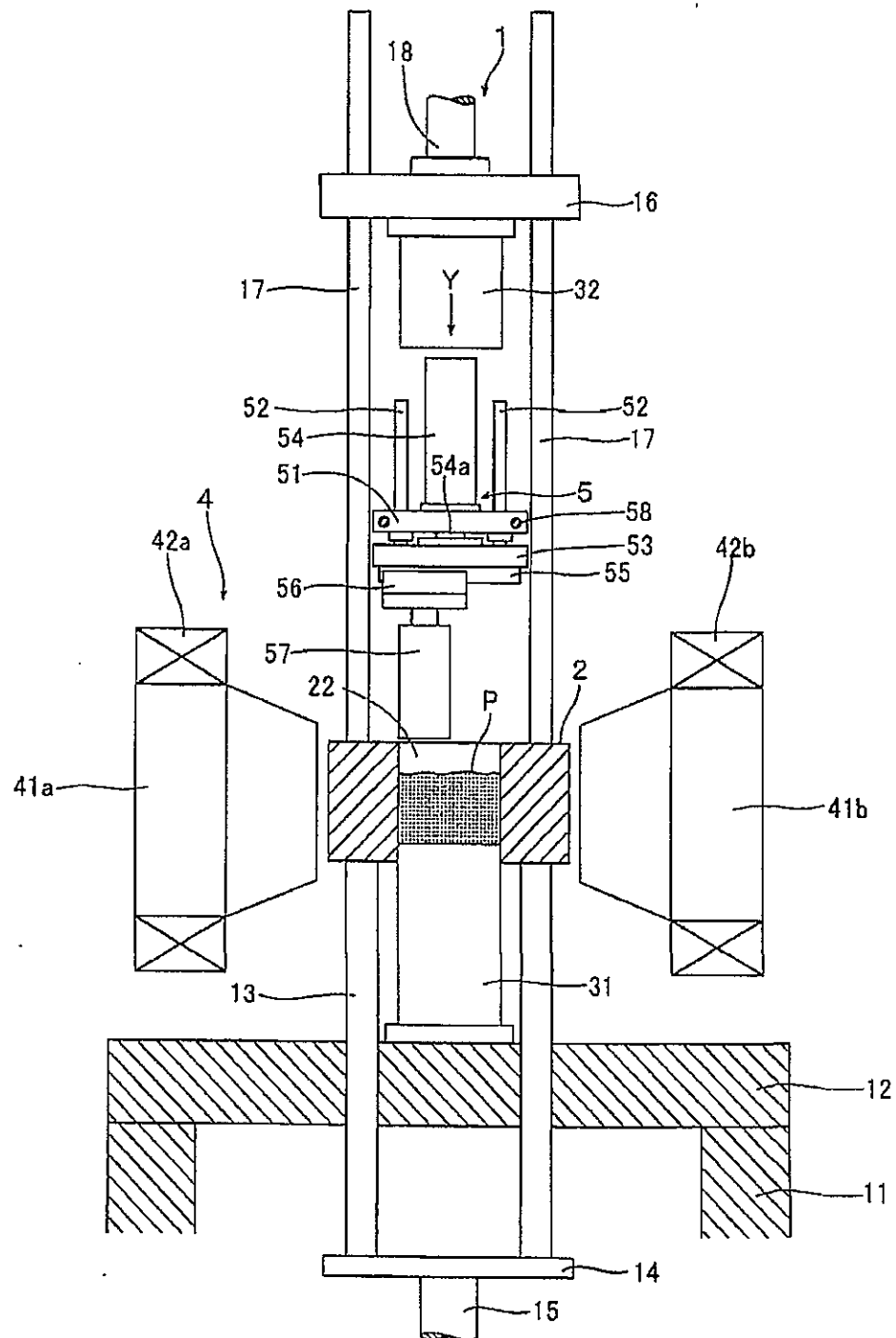


Fig.3

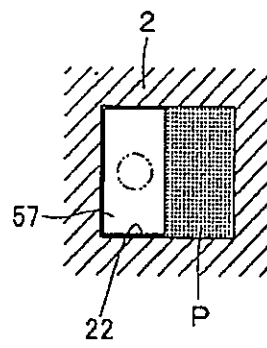


Fig.4(a)

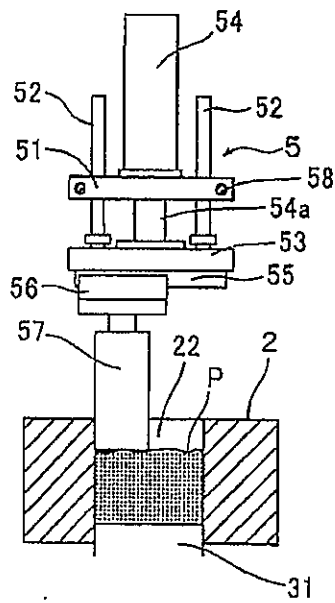


Fig.4(b)

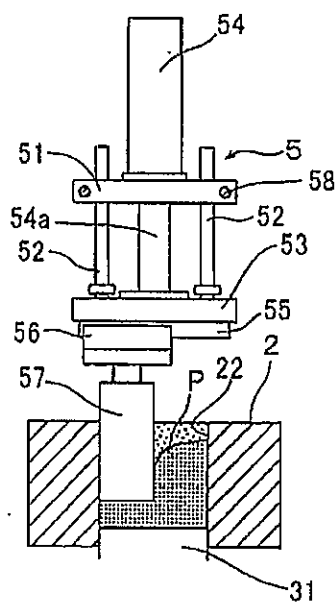


Fig.4(c)

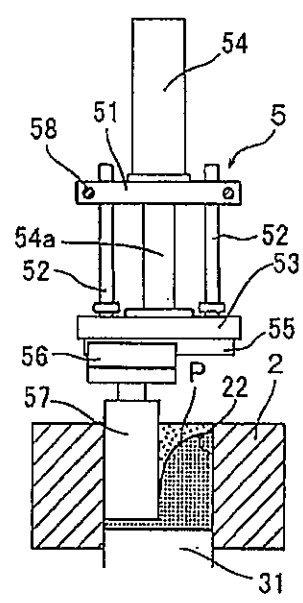


Fig.4(d)

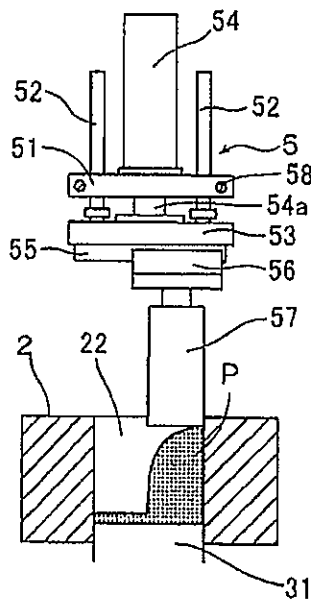


Fig.4(e)

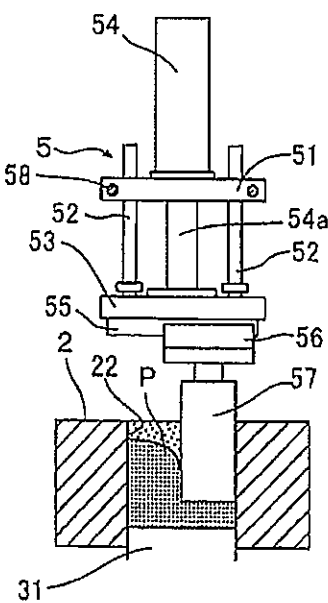


Fig.4(f)

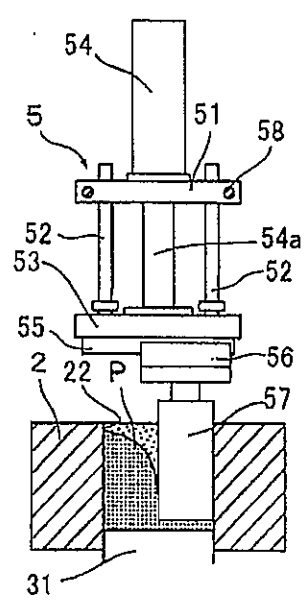


Fig.5(a)

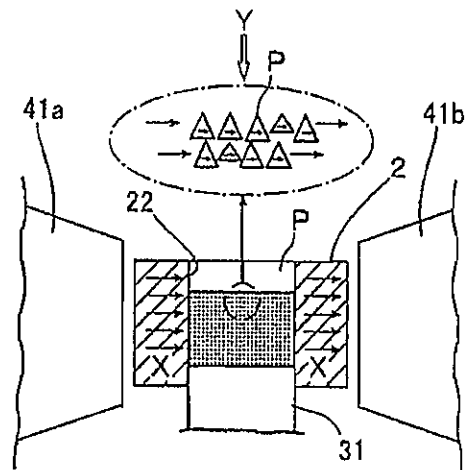


Fig.5(b)

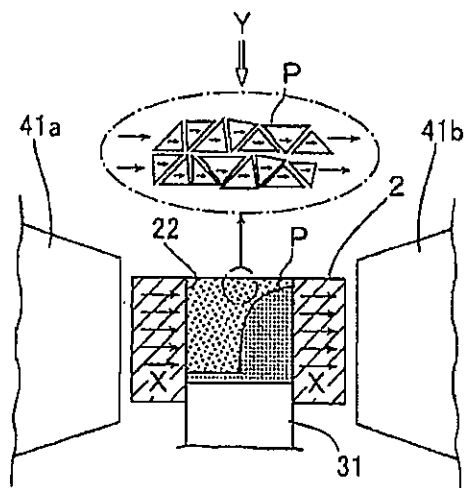


Fig.6

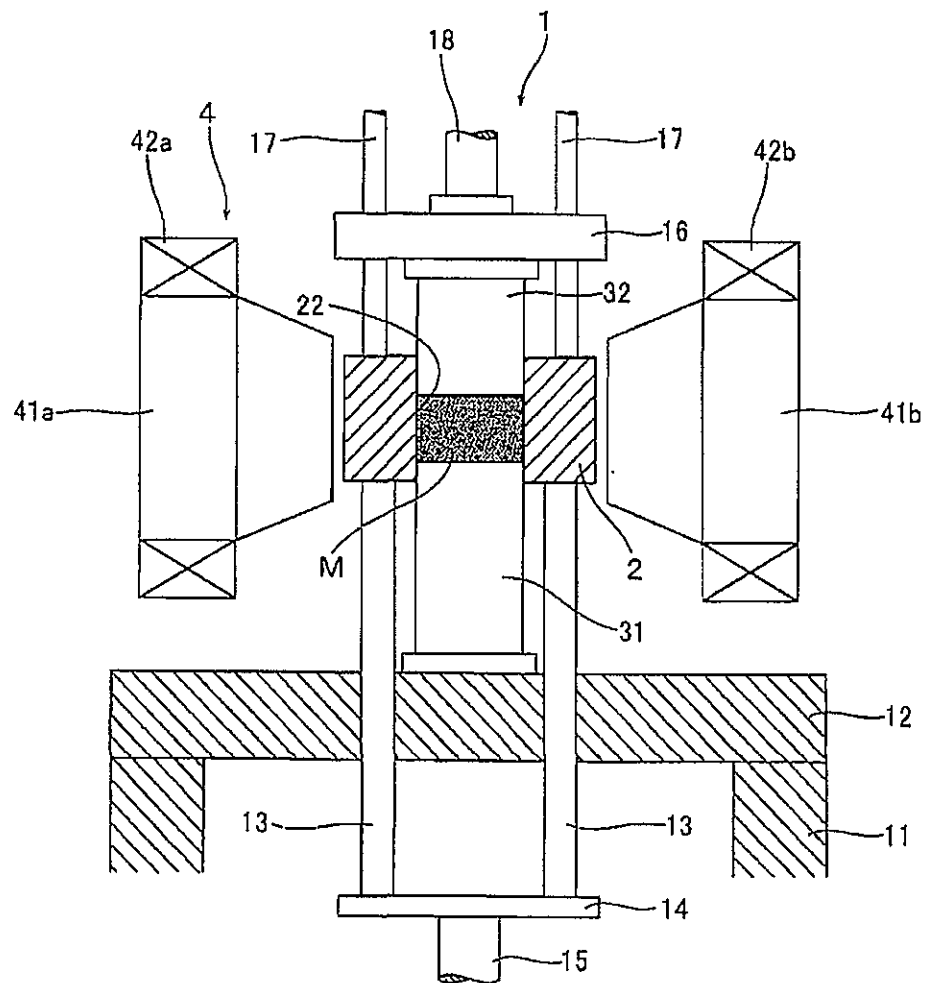


Fig.7

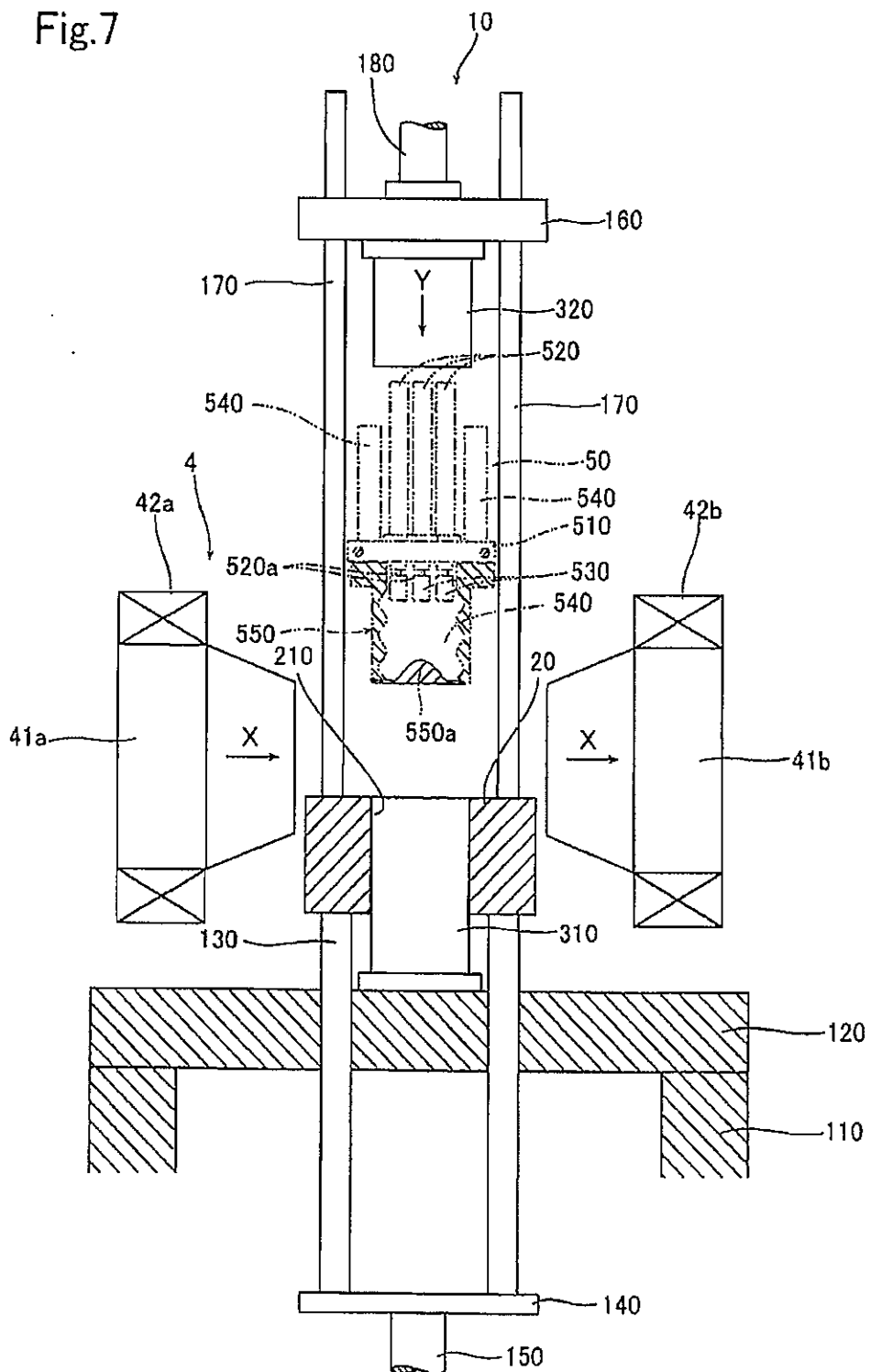


Fig.8

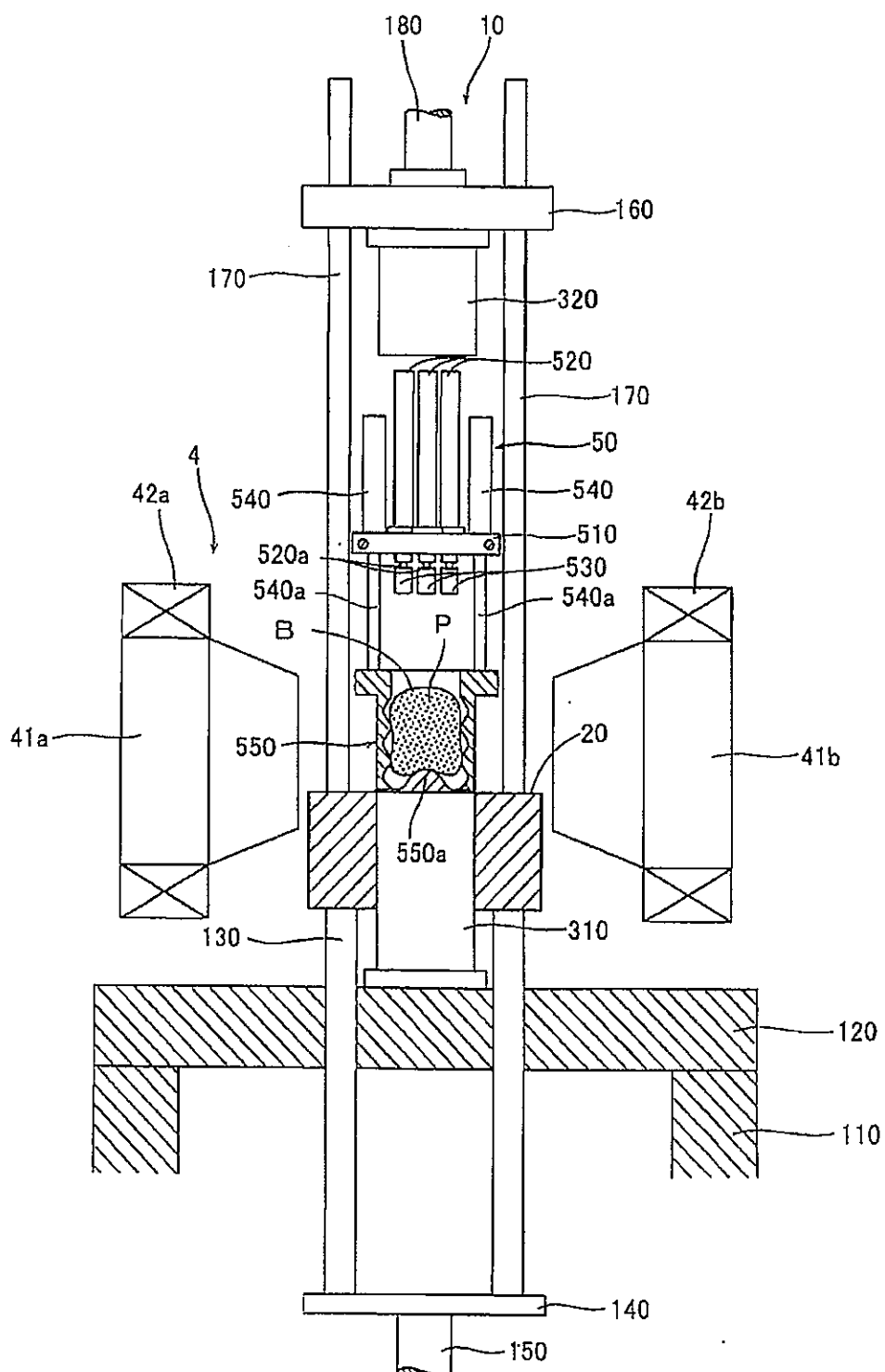


Fig.9

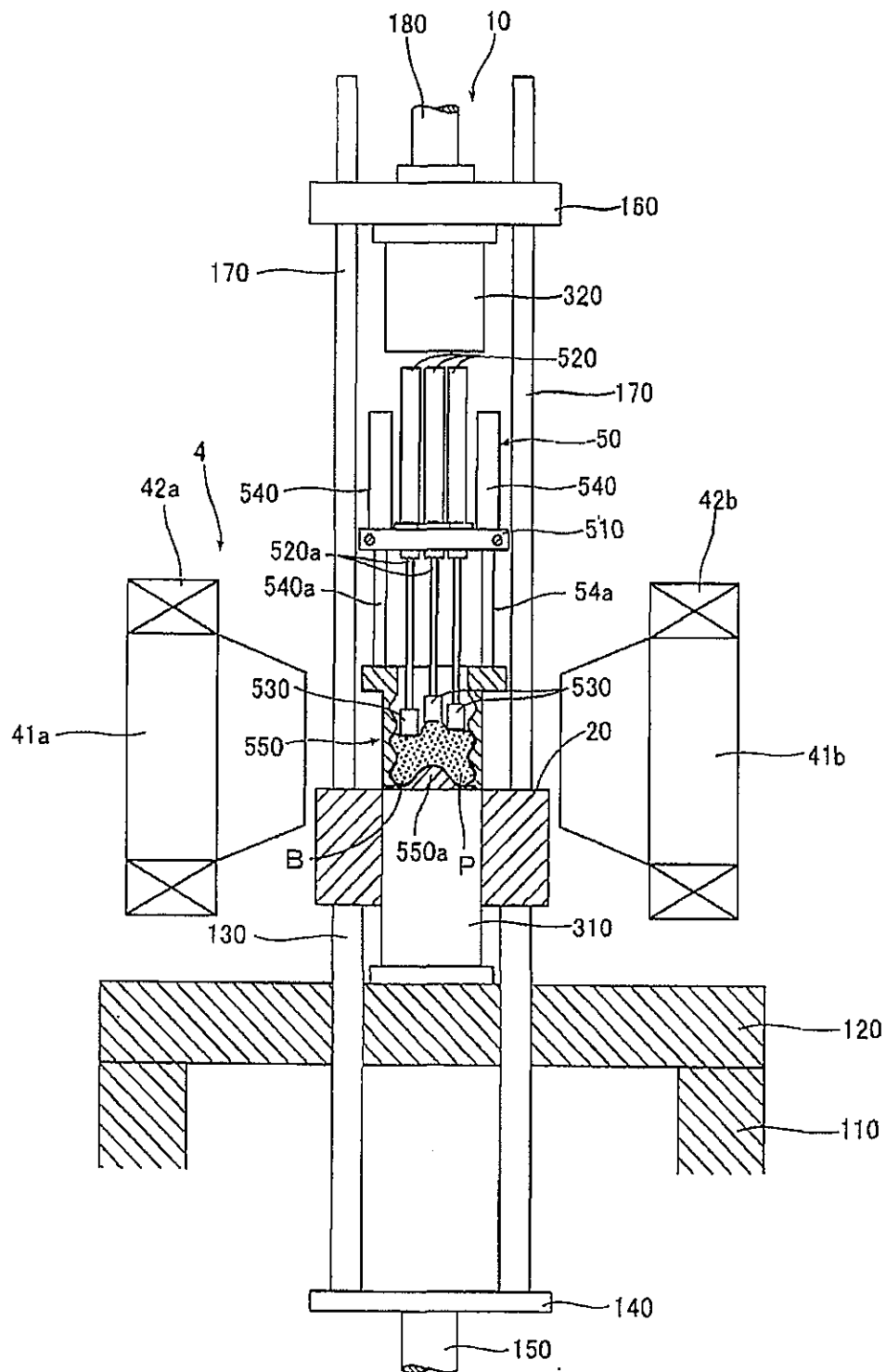


Fig.10(a)

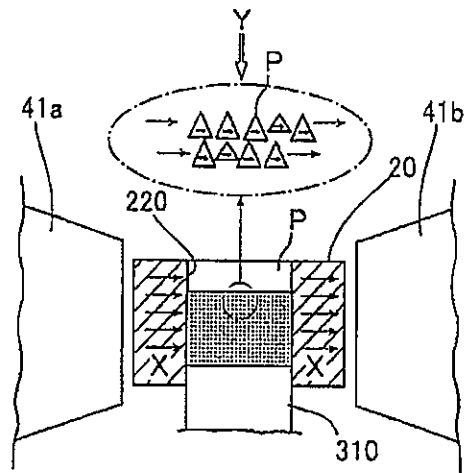


Fig.10(b)

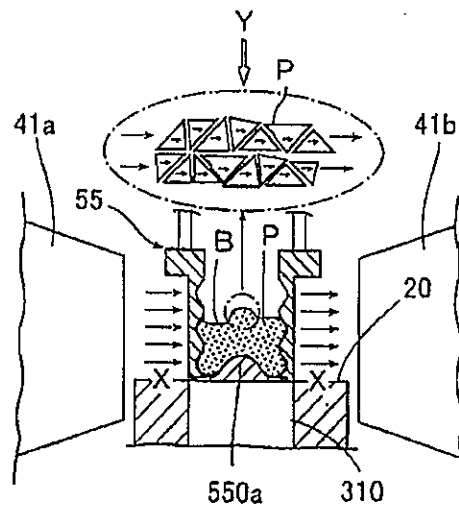


Fig.11

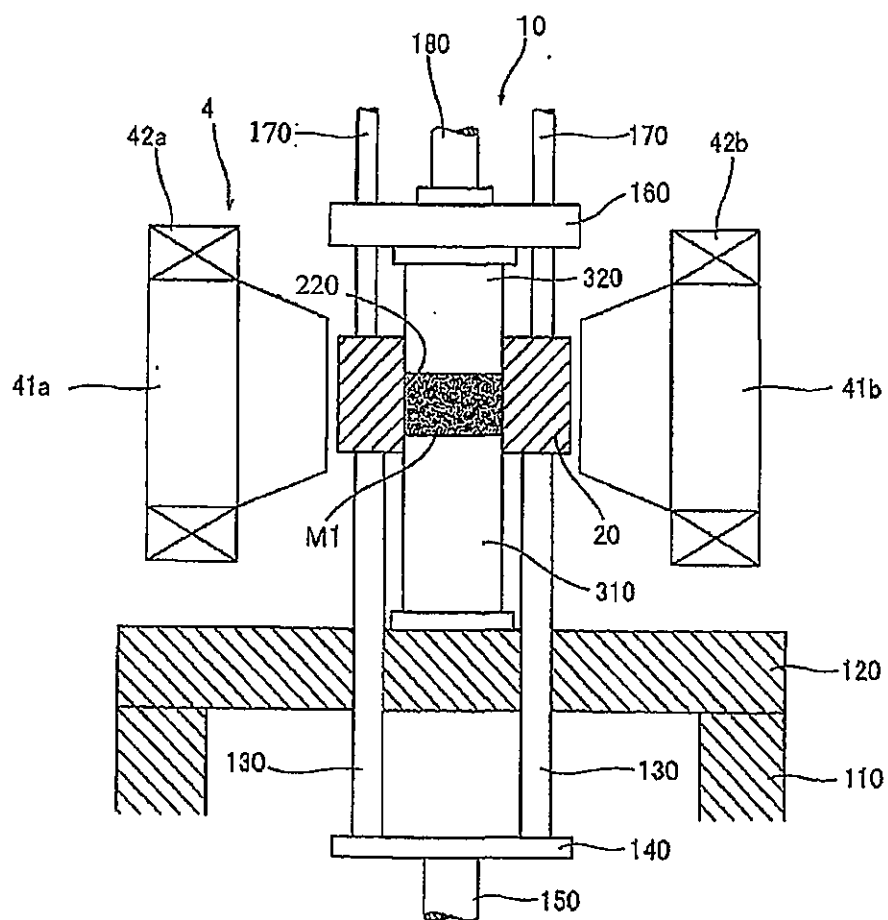


Fig.12(a)

Pressing step	Shape of pusher	Lateral movement of pusher	Total number of pressing of pusher	Front end shape of pusher	Material of pusher	Vertical vibration
I	25 × 50	No	1	Square	Cast iron	No
II	25 × 50	No	1	Square	SUS304	No
III	25 × 50	Yes	2	Square	SUS304	No
IV	35 × 50	Yes	4	Square	Nylon	No
V	10 × 10	Yes(vertical • lateral)	25	Square	Nylon	No
VI	10 × 10	Yes(vertical • lateral)	50	45deg • pyramid	PEEK	No
VII	10 × 10	Yes(vertical • lateral)	50	45deg • pyramid	PEEK	Yes
VIII	No	No	0	—	—	—

Fig.12(b)

	Pressing step	Kind of powder	Addition of solid lubricant	Br(kG)	(BH)max (MG0e)	iHc(k0e)	Degree of orientation (%)
Example	I	B	Yes	14.5	51.5	14.2	95
	II	B	Yes	14.7	53.0	14.1	96
	III	B	Yes	14.8	53.7	14.0	97
	IV	B	Yes	15	55.1	14.1	98
	V	B	Yes	15.1	55.9	14.2	99
	VI	B	Yes	15.1	55.8	14.1	99
	VII	B	No	14.8	53.7	14.1	97
	VIII	B	Yes	15.2	56.6	14.2	99.5
Comparative example	VIII	B	Yes	14.4	50.8	14.1	94
Example	VI	A	No	14.2	49.4	14.2	93
Example	VI	A	Yes	15	55.0	13.2	98
Example	VI	C	Yes	15.2	56.8	14.8	99.5

Fig.13

	Kneading	Kind of powder	Addition of lubricant	Br(kG)	(BH)max (MG0e)	iHc(kOe)	Degree of orientation (%)
Example	Yes	B	No	14.6	52.5	14.2	96
	Yes	B	Yes	15.0	55.0	14.2	98
	Yes	A	Yes	14.8	53.7	13.2	97
	Yes	C	Yes	15.2	56.8	14.8	99.5
Comparative example	No	B	Yes	14.4	50.8	14.1	94
	No	B	No	14.2	49.4	14.1	93