

FIG.1

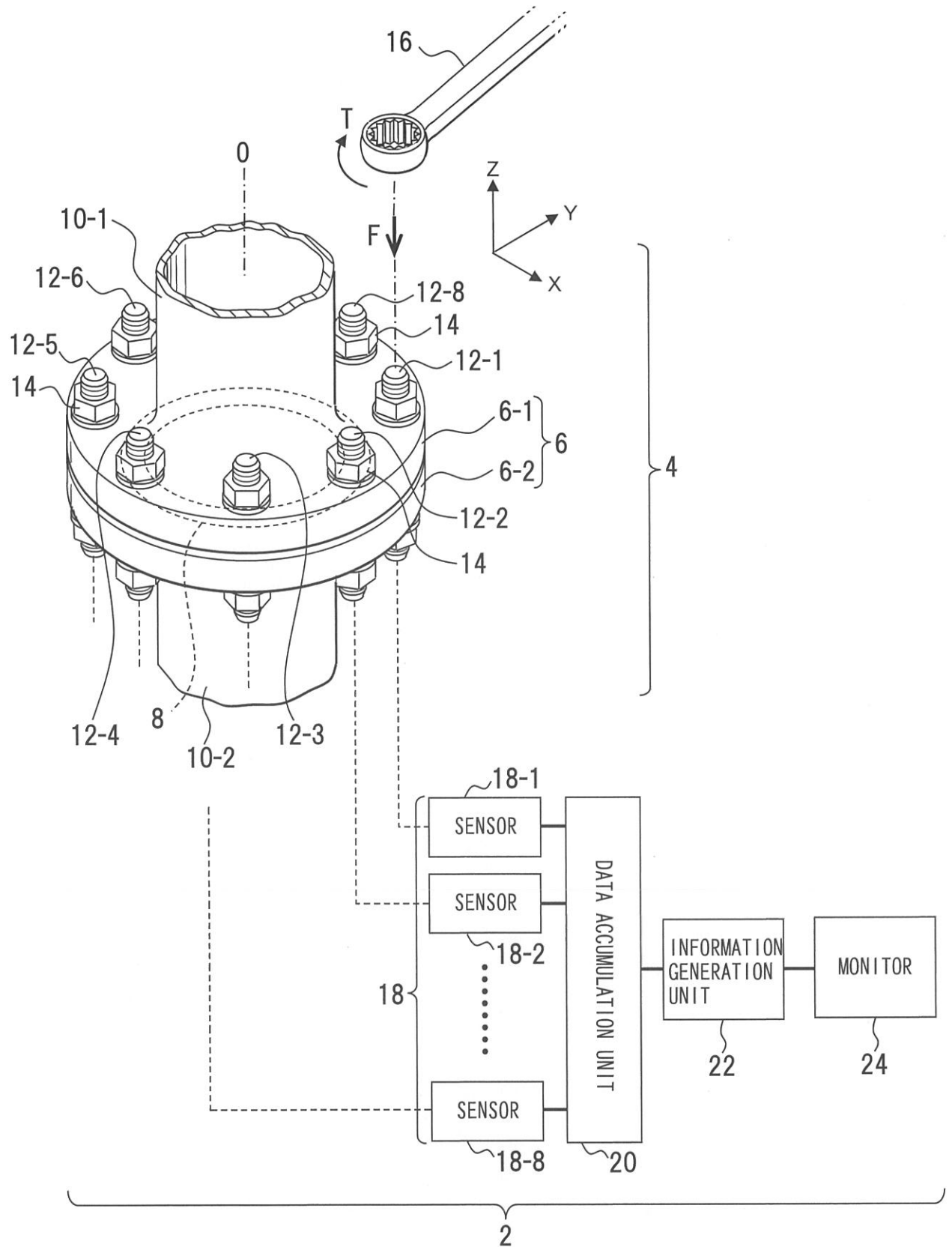


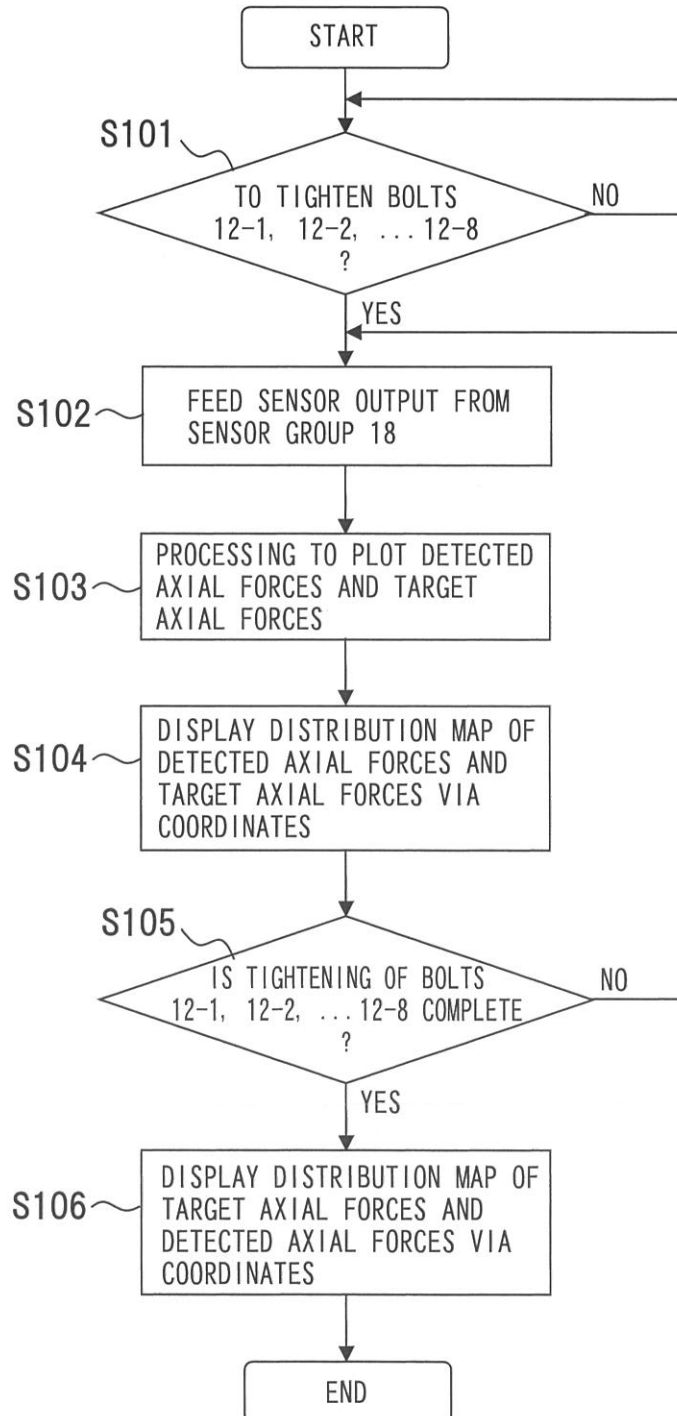
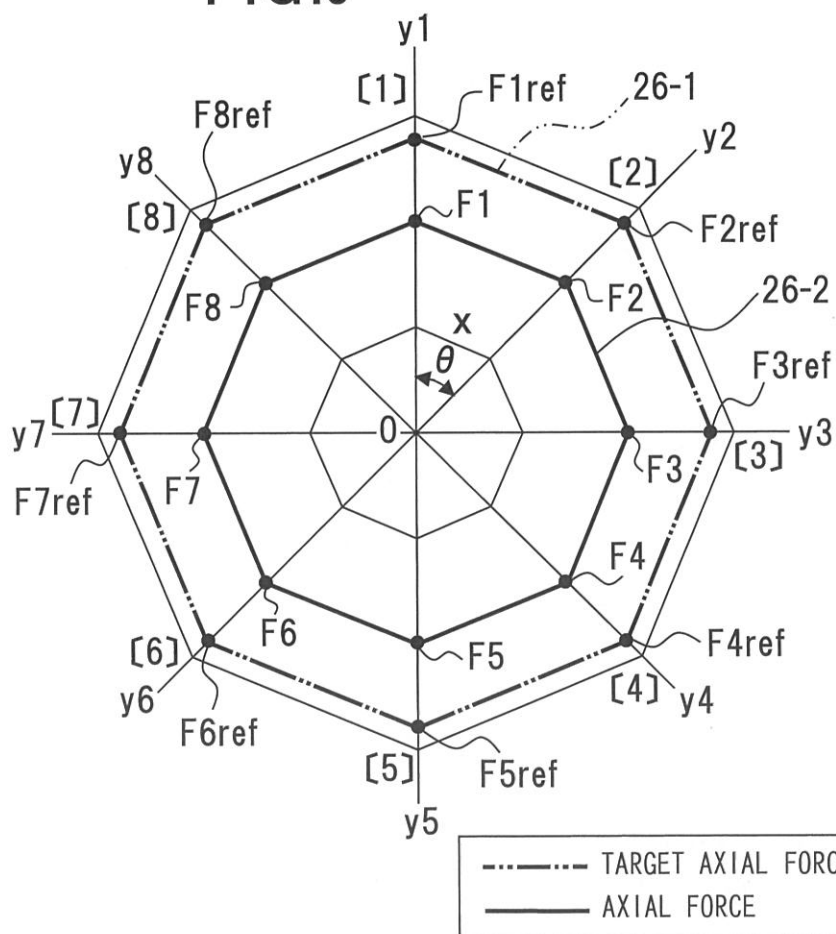
FIG.2

FIG.3

A
[BEFORE REACHING
TARGET AXIAL FORCE]



B
[VARIATION IN AXIAL
FORCES BY ELASTIC
INTERACTION EFFECT]

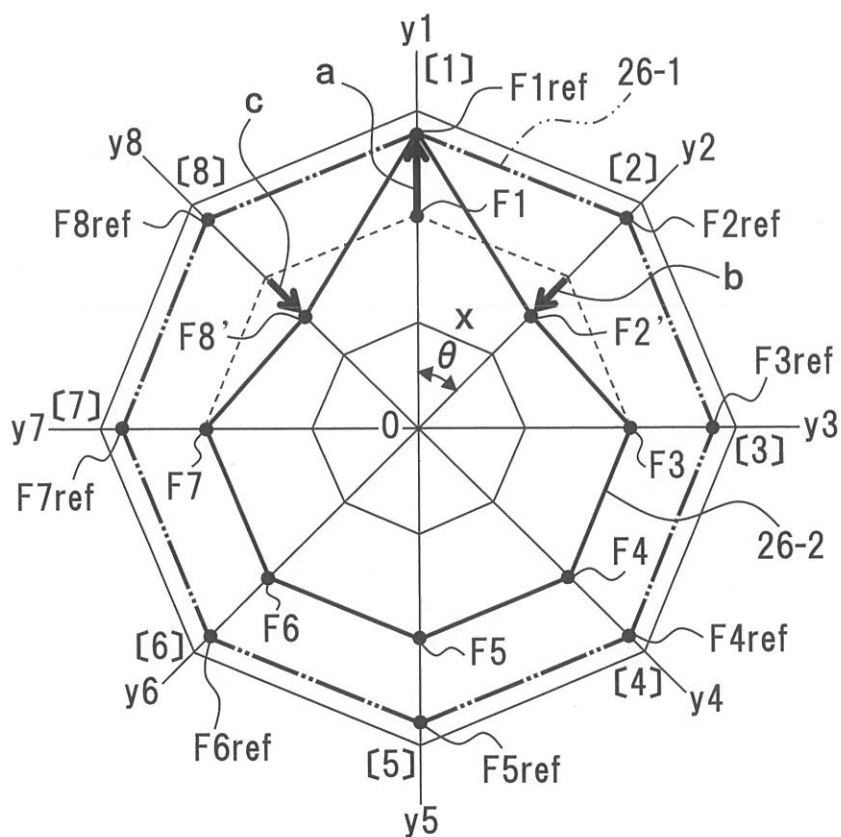


FIG. 4

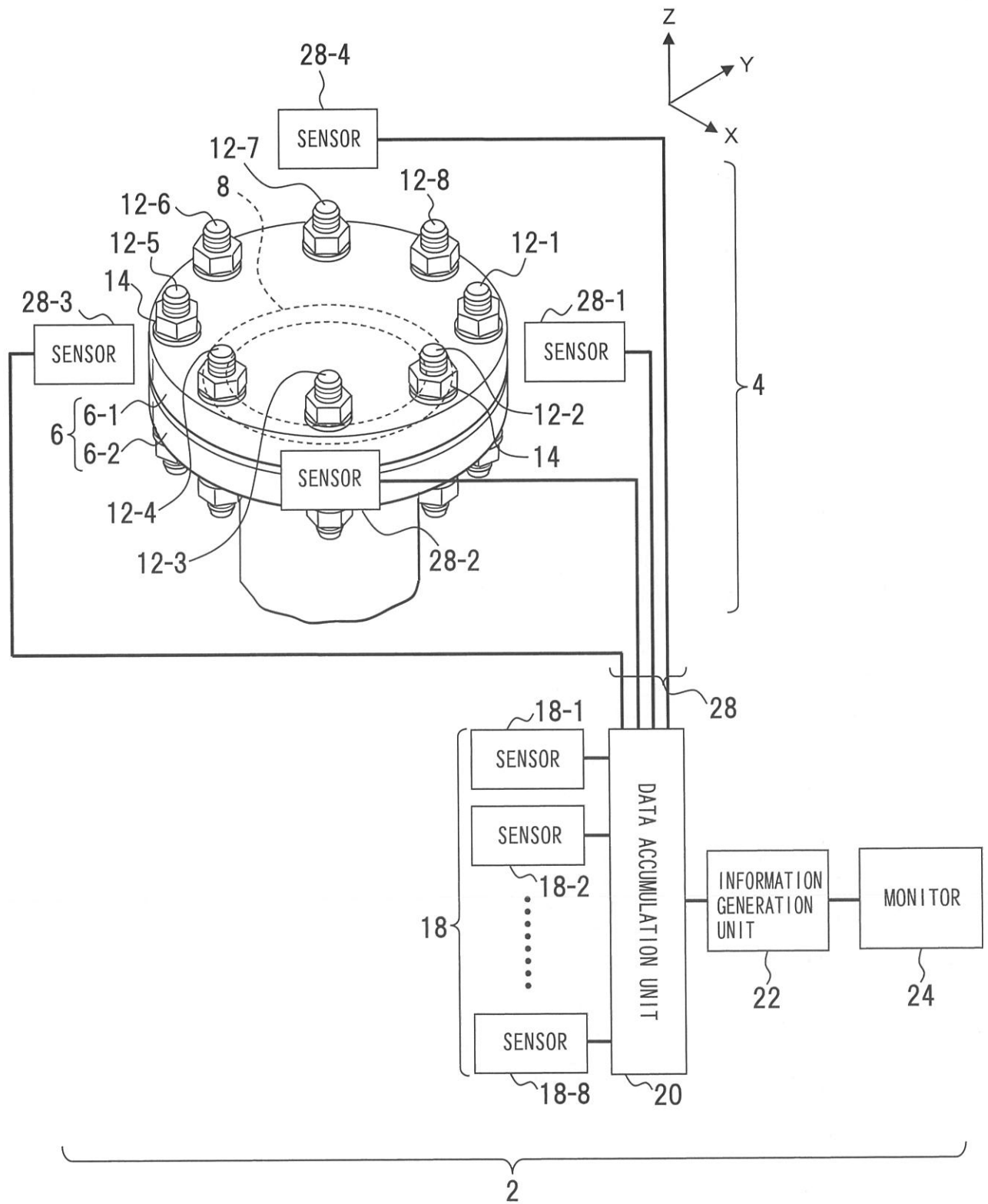


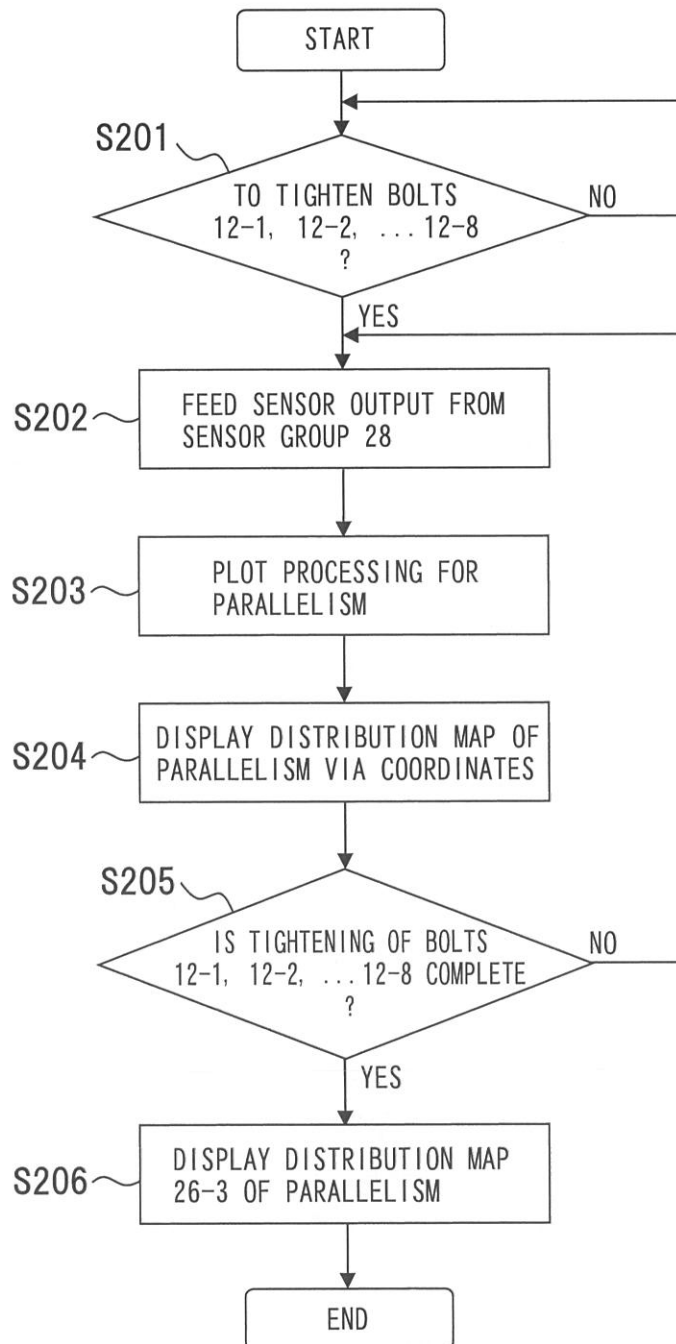
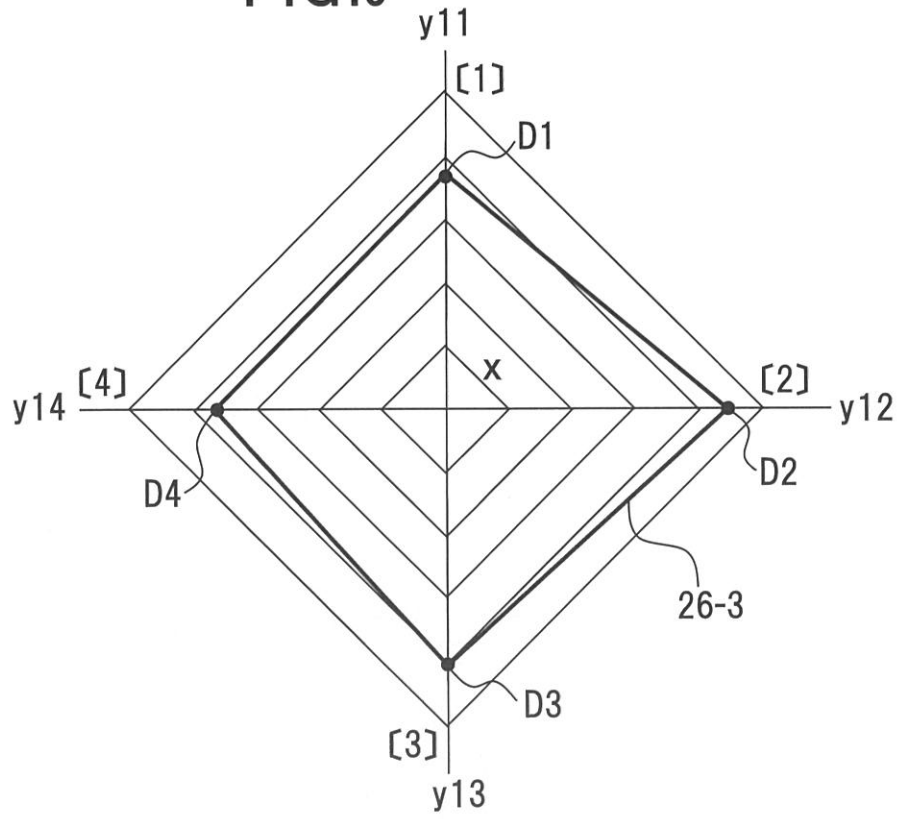
FIG.5

FIG.6

A
[PARALLELISM
STATE]



B
[NON-PARALLELISM
STATE]

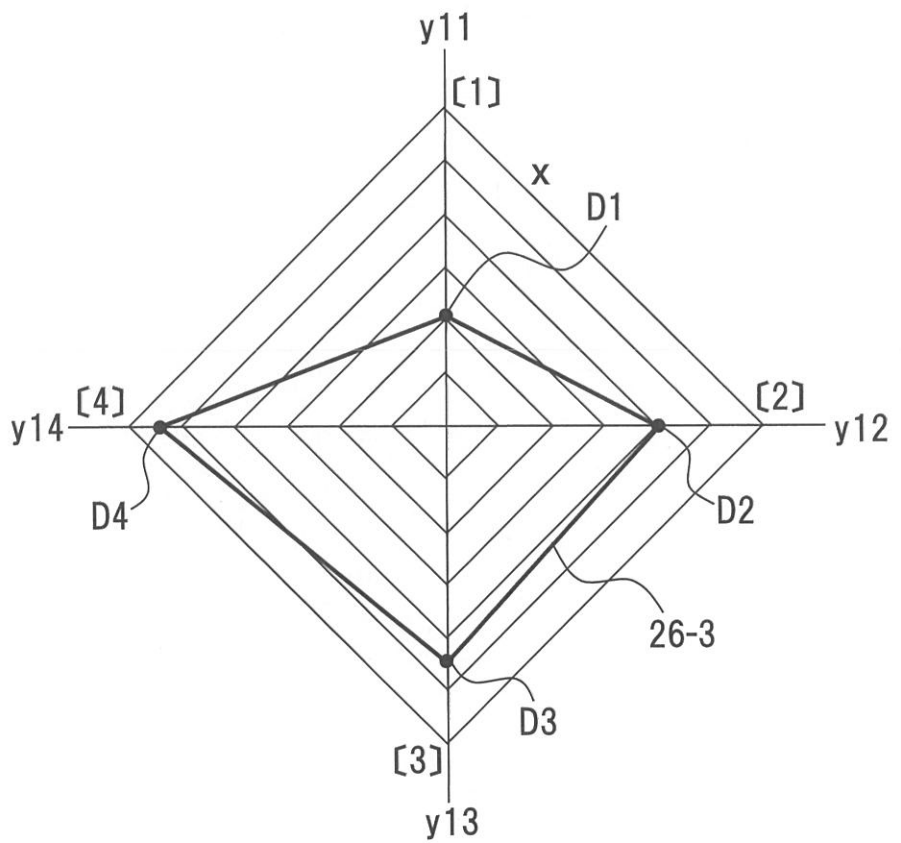


FIG.7

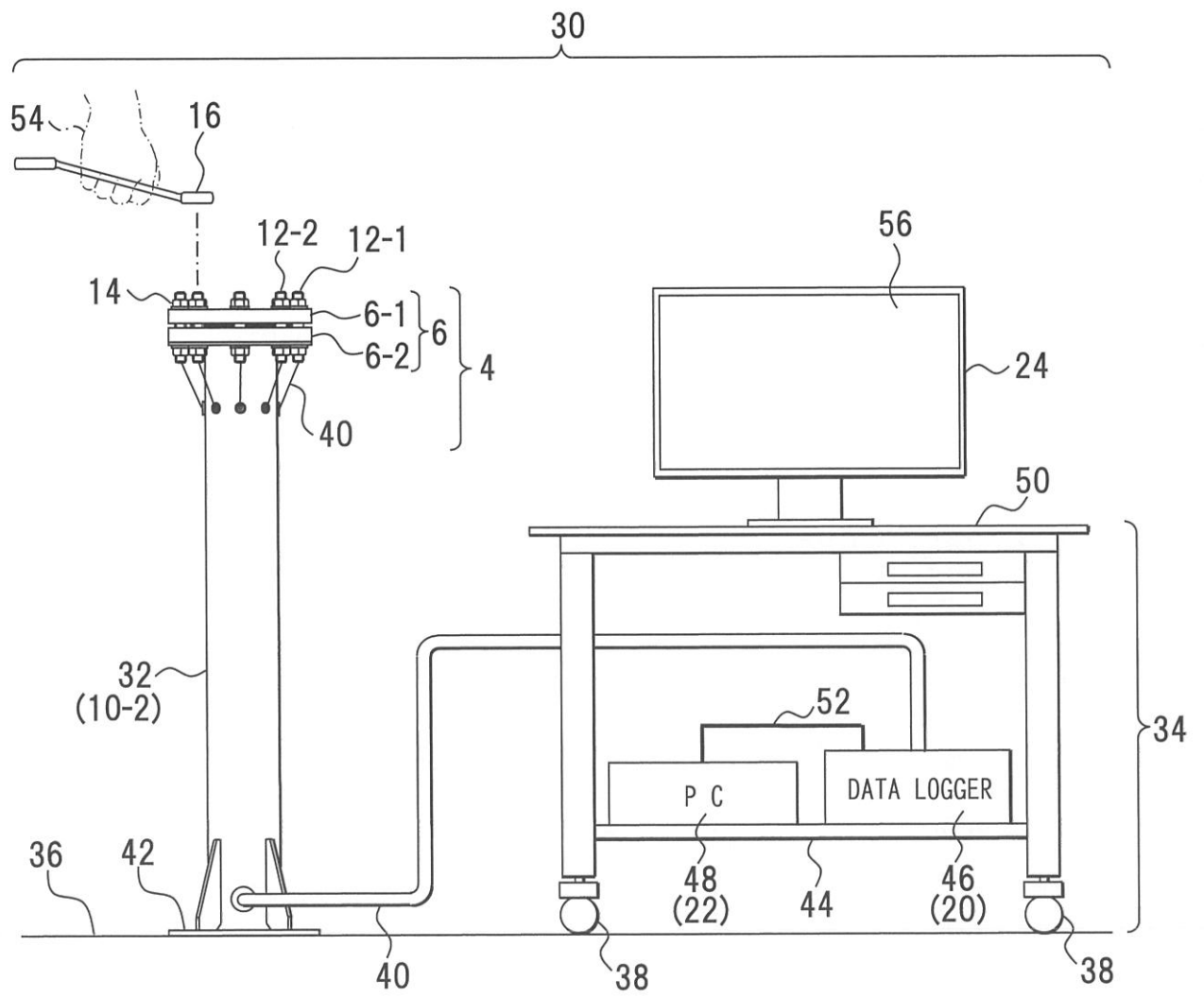


FIG.8

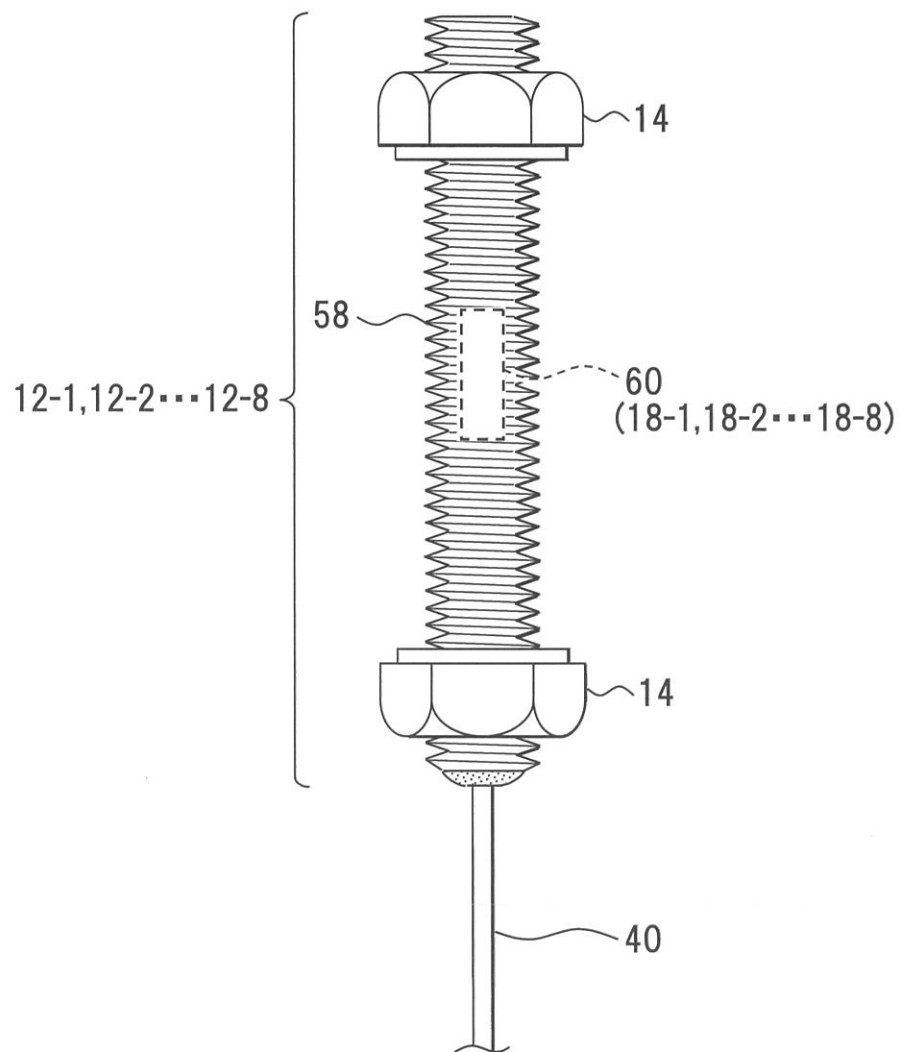


FIG.9

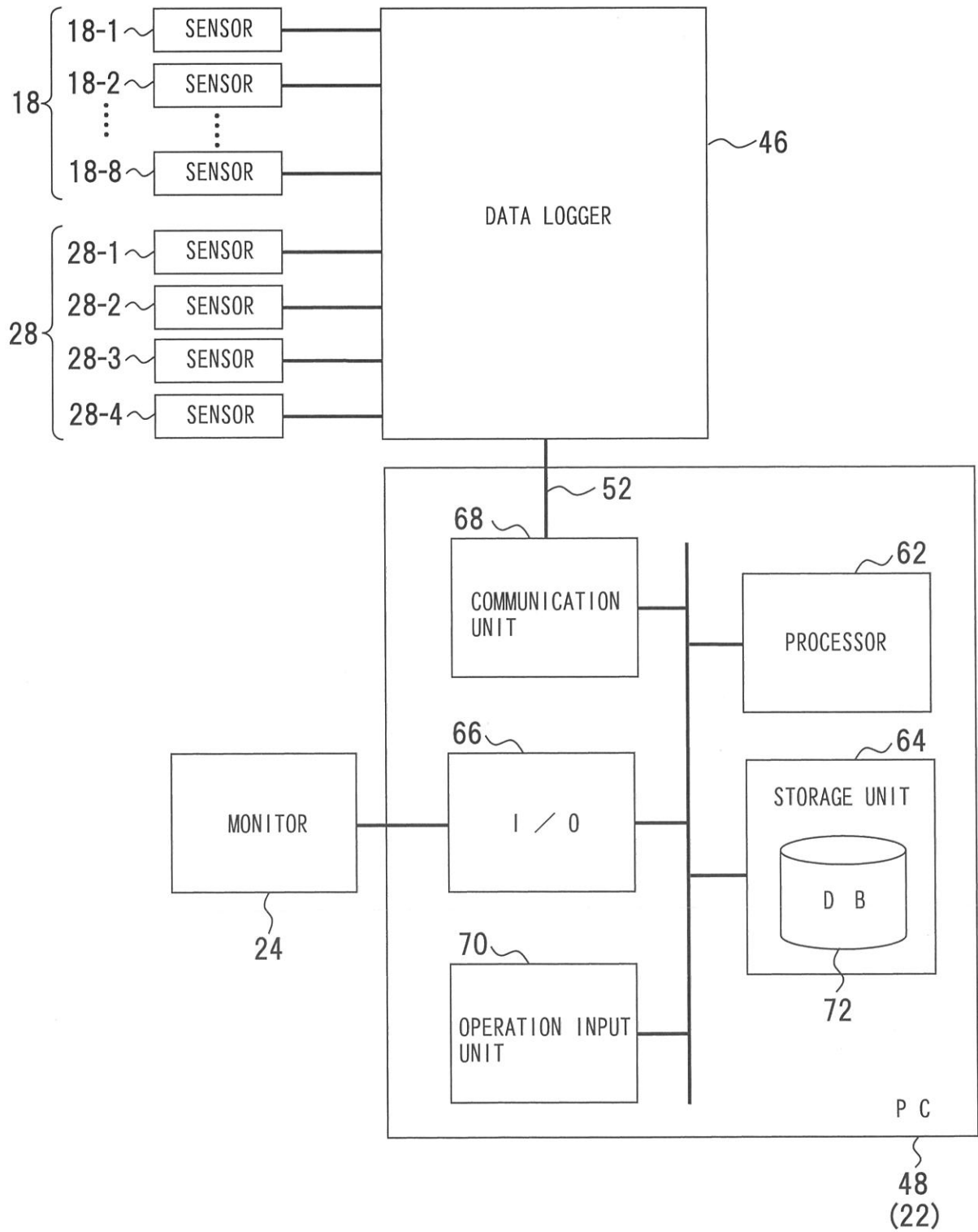


FIG.10

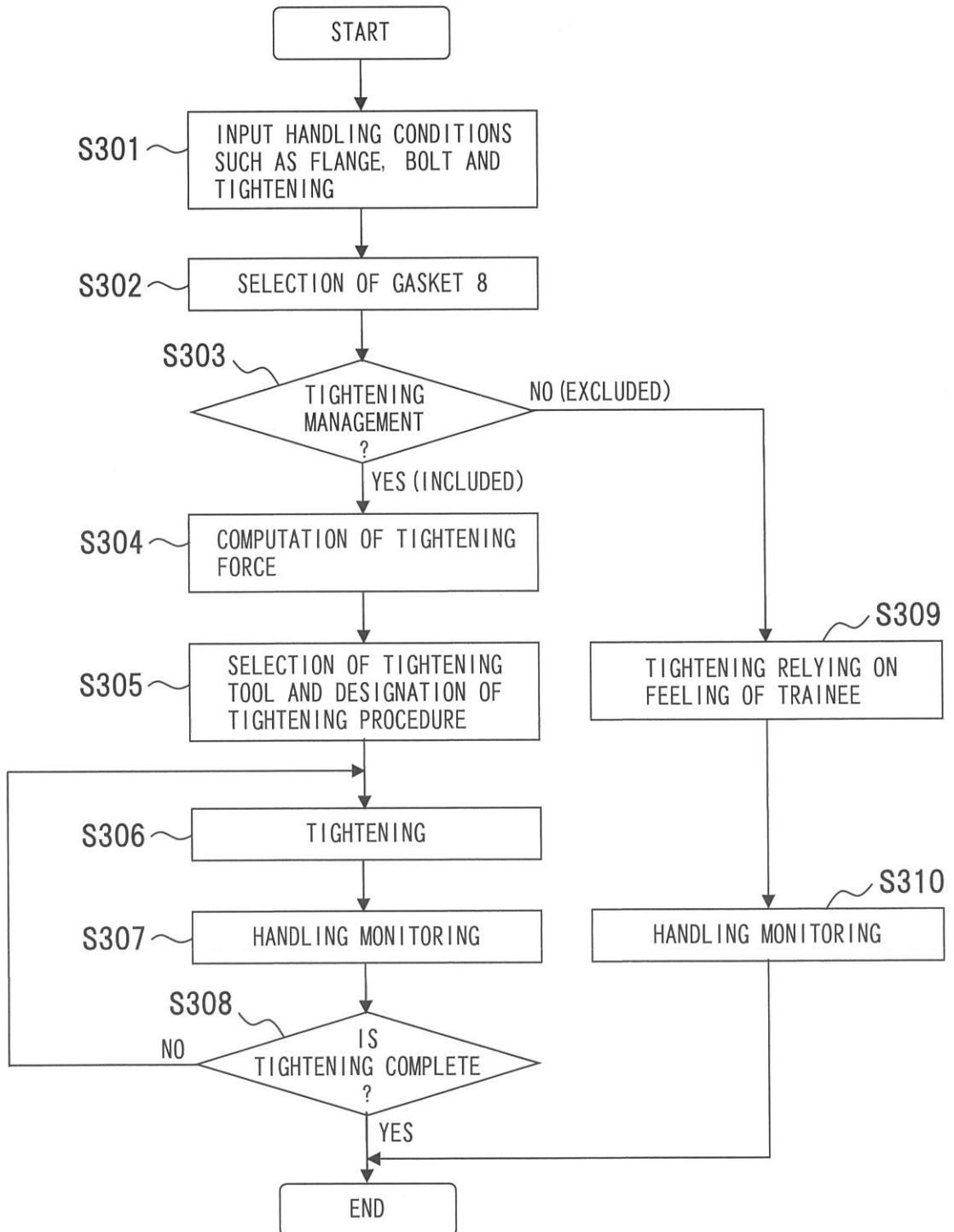


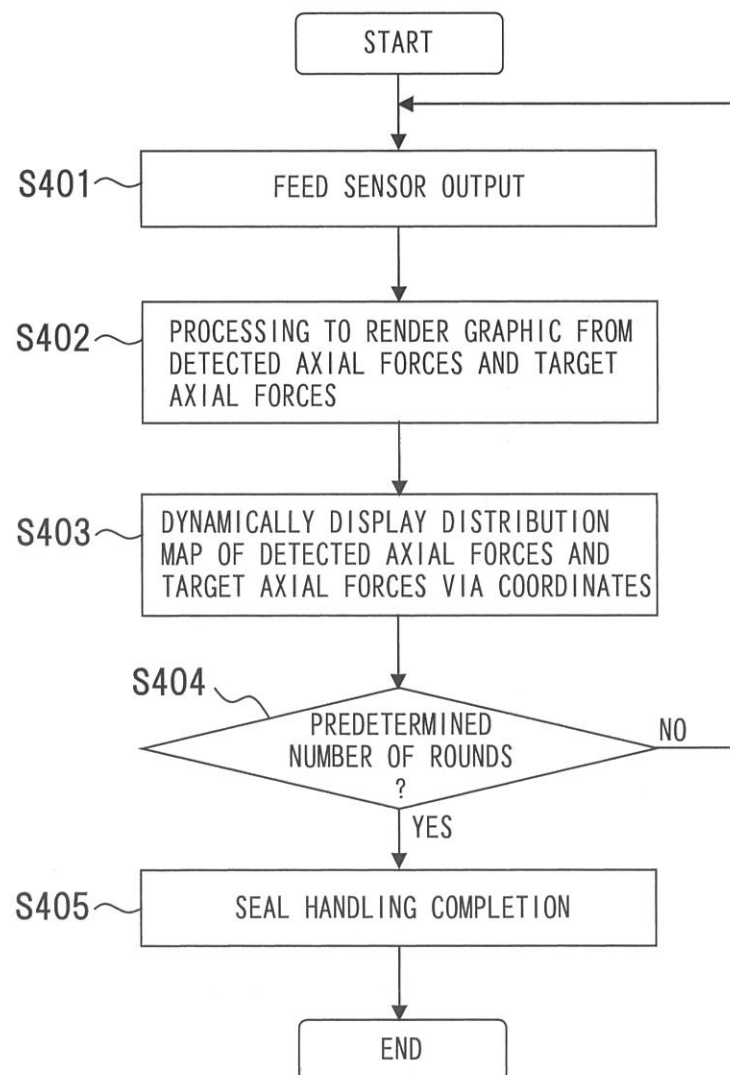
FIG.11

FIG.12

[AXIAL FORCE TABLE 74]

		AXIAL FORCE				
		SENSOR 18-1	SENSOR 18-2	.....	SENSOR 18-8	.....
NUMBER OF ROUNDS	I	F1101	F2101	.....	F8101	.....
		F1102	F2102	.....	F8102	.....
		⋮	⋮	⋮	⋮	⋮
	II	F1201	F2201	.....	F8201	.....
		F1202	F2202	.....	F8202	.....
		⋮	⋮	⋮	⋮	⋮
	III	F1301	F2301	.....	F8301	.....
		F1302	F2302	.....	F8302	.....
		⋮	⋮	⋮	⋮	⋮
	IV	F1401	F2401	.....	F8401	.....
		F1402	F2402	.....	F8402	.....
		⋮	⋮	⋮	⋮	⋮
	...					

FIG.13

[PARALLELISM TABLE 76]

		GAP BETWEEN FLANGES				
		SENSOR 28-1	SENSOR 28-2	SENSOR 28-3	SENSOR 28-4	.....
NUMBER OF ROUNDS	I	D1101	D2101	D3101	D4101	.....
		D1102	D2102	D3102	D4102	.....
		⋮	⋮	⋮	⋮	⋮
	II	D1201	D2201	D3201	D4201	.....
		D1202	D2202	D3202	D4202	.....
		⋮	⋮	⋮	⋮	⋮
	III	D1301	D2301	D3301	D4301	.....
		D1302	D2302	D3302	D4302	.....
		⋮	⋮	⋮	⋮	⋮
	IV	D1401	D2401	D3401	D4401	.....
		D1402	D2402	D3402	D4402	.....
		⋮	⋮	⋮	⋮	⋮
	...					

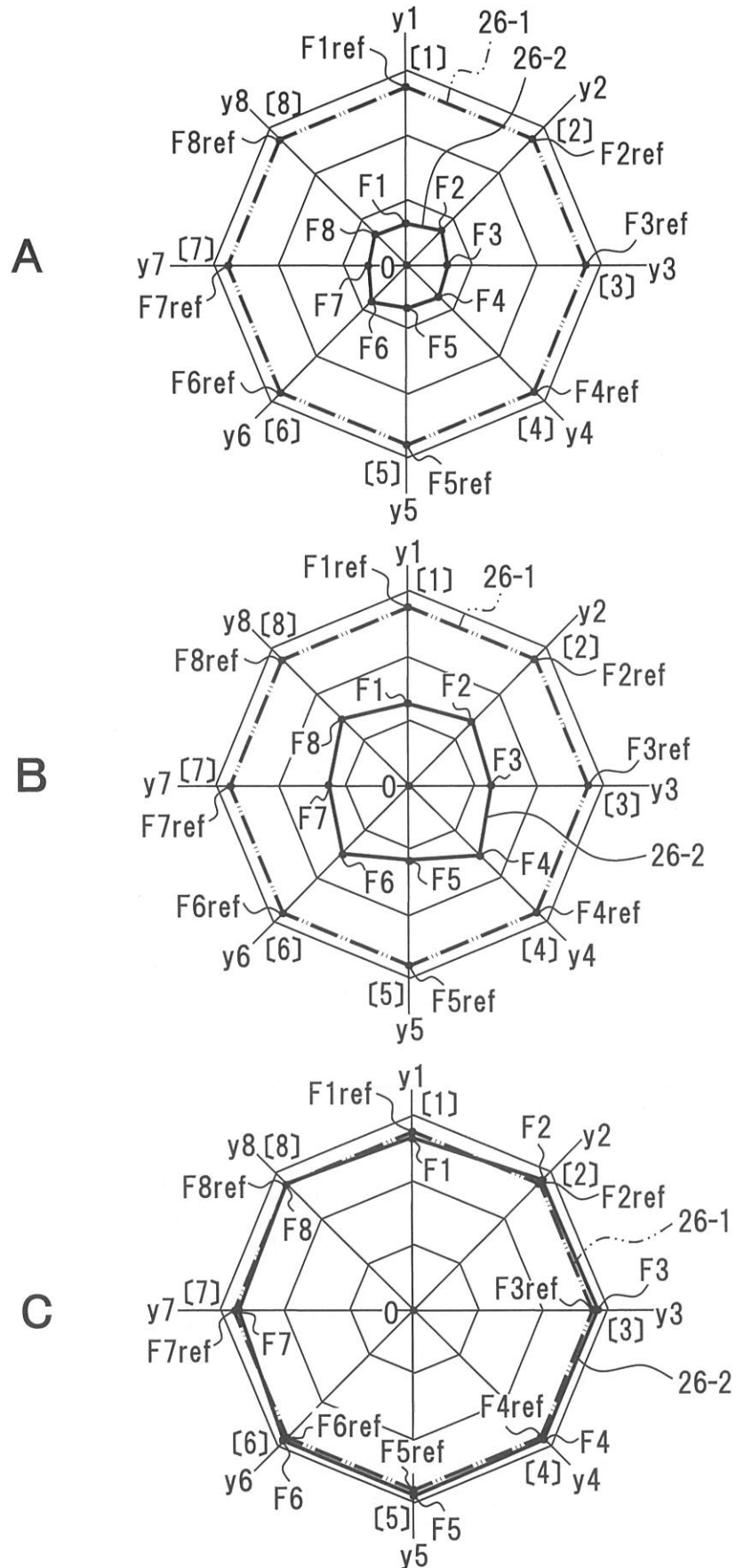
FIG.14

FIG.15

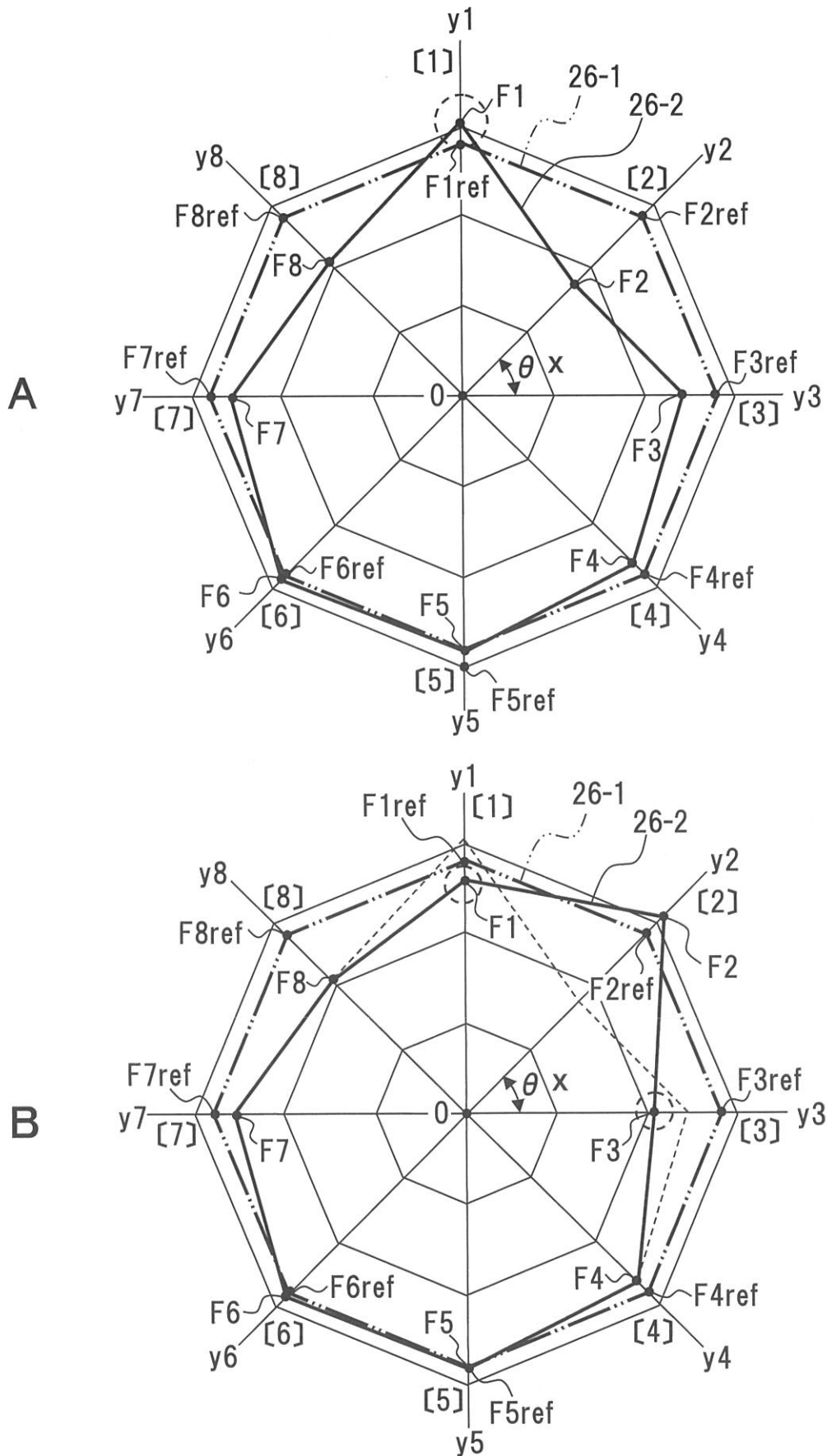


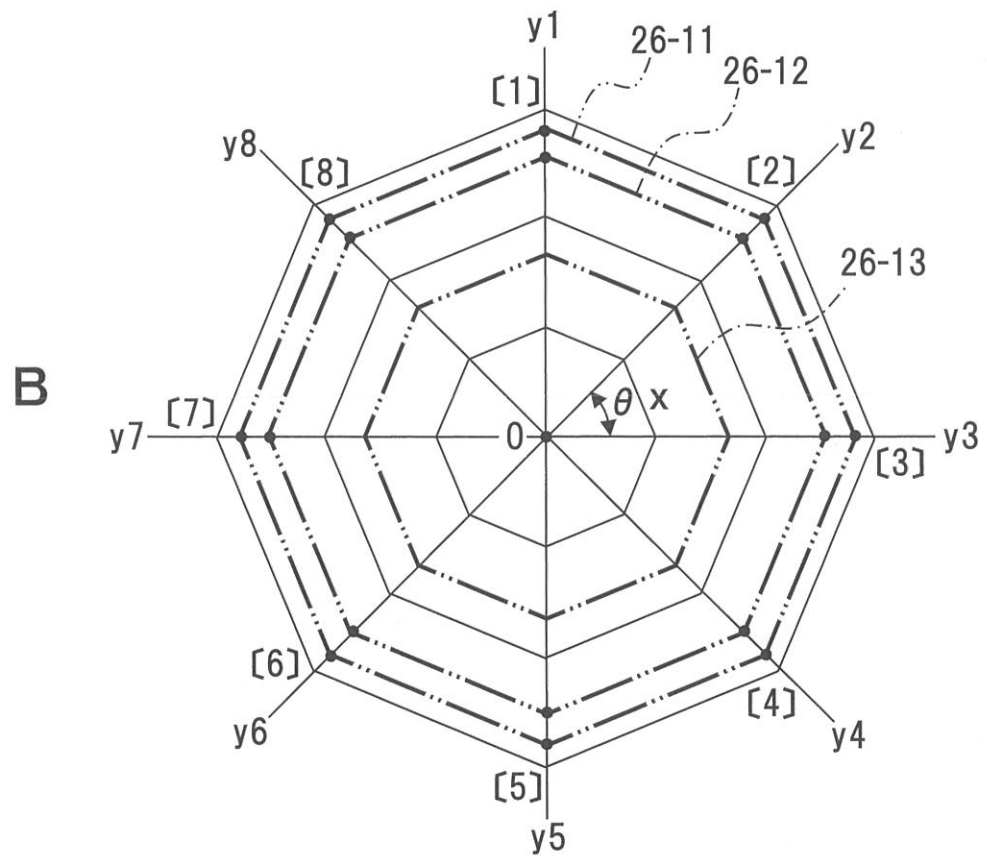
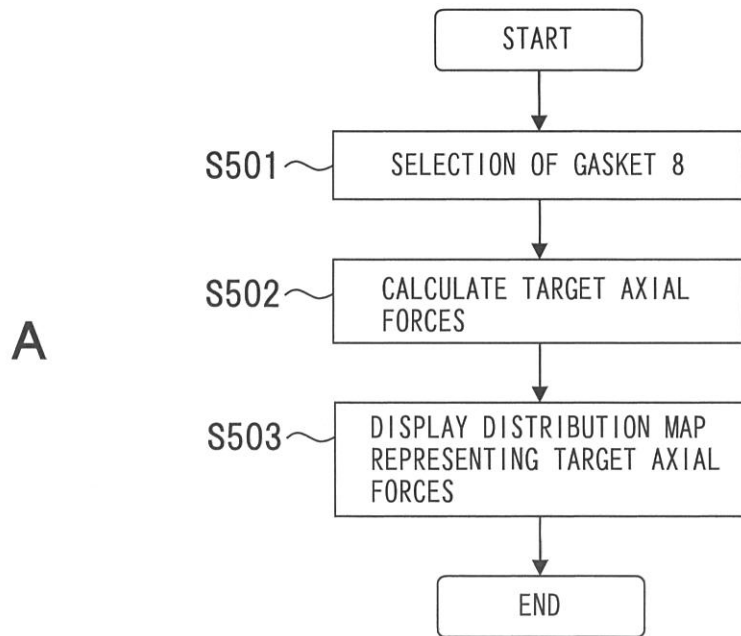
FIG.16

FIG.17

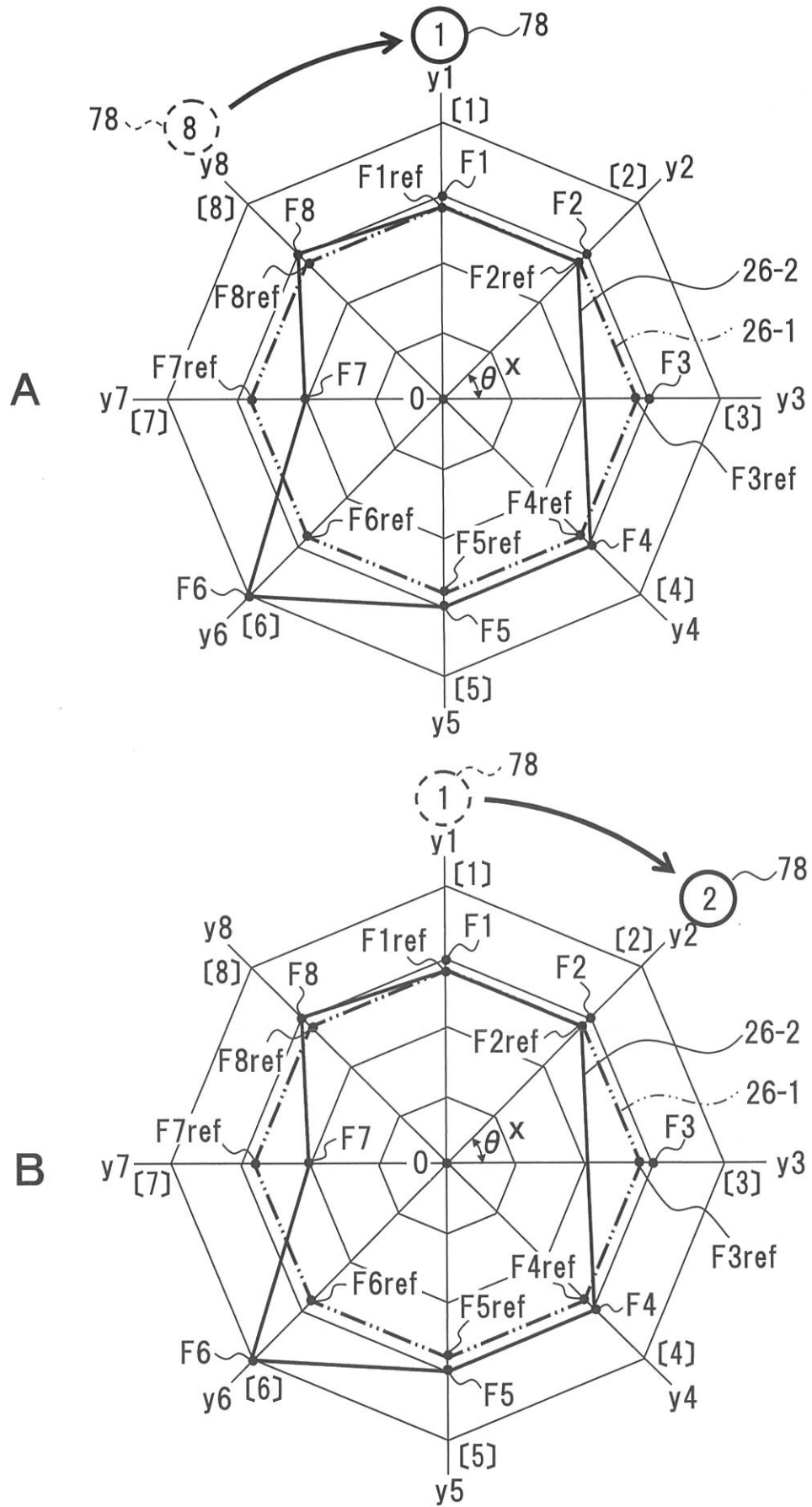
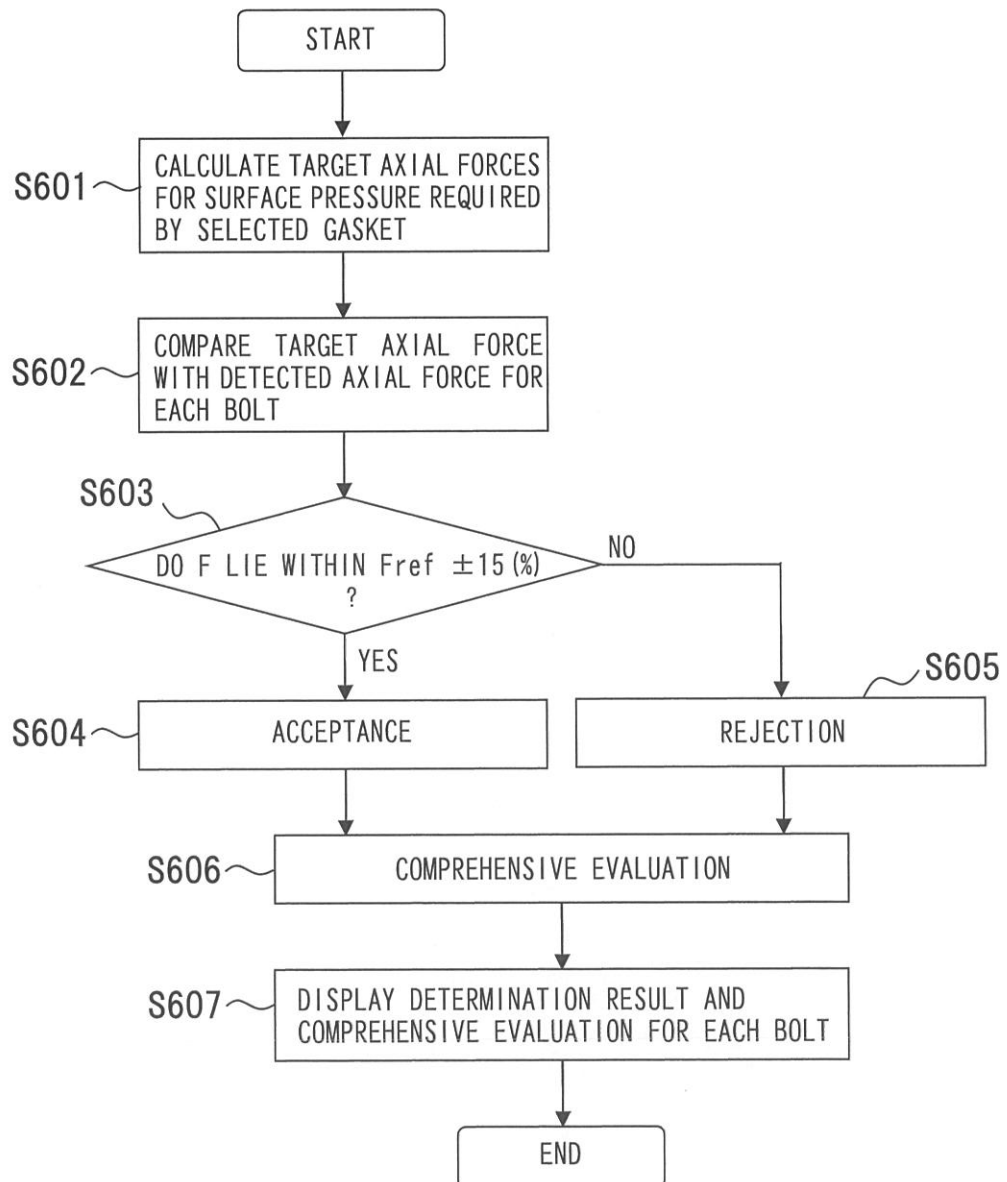


FIG.18





TARGET AXIAL FORCE	Fref=30 [kN]							
TOLERANCE OF TARGET AXIAL FORCE	Fref±15 [%] =25.5~34.5 [kN]							
DETECTED AXIAL FORCE	AXIAL FORCE OF BOLT 12-1	AXIAL FORCE OF BOLT 12-2	AXIAL FORCE OF BOLT 12-3	AXIAL FORCE OF BOLT 12-4	AXIAL FORCE OF BOLT 12-5	AXIAL FORCE OF BOLT 12-6	AXIAL FORCE OF BOLT 12-7	AXIAL FORCE OF BOLT 12-8
	28.0 [kN]	28.0 [kN]	20.0 [kN]	30.0 [kN]	30.0 [kN]	40.0 [kN]	20.0 [kN]	30.0 [kN]
DISCRETE EVALUATION	ACCEPTANCE	ACCEPTANCE	REJECTION	ACCEPTANCE	ACCEPTANCE	REJECTION	REJECTION	ACCEPTANCE
COMPREHENSIVE EVALUATION	REJECTION							

TARGET AXIAL FORCE	Fref=30 [kN]							
TOLERANCE OF TARGET AXIAL FORCE	Fref±15 [%] =25.5~34.5 [kN]							
DETECTED AXIAL FORCE	AXIAL FORCE OF BOLT 12-1	AXIAL FORCE OF BOLT 12-2	AXIAL FORCE OF BOLT 12-3	AXIAL FORCE OF BOLT 12-4	AXIAL FORCE OF BOLT 12-5	AXIAL FORCE OF BOLT 12-6	AXIAL FORCE OF BOLT 12-7	AXIAL FORCE OF BOLT 12-8
	28.0 [kN]	28.0 [kN]	20.0 [kN]	30.0 [kN]	30.0 [kN]	40.0 [kN]	20.0 [kN]	30.0 [kN]
DISCRETE EVALUATION	ACCEPTANCE	ACCEPTANCE	REJECTION	ACCEPTANCE	ACCEPTANCE	REJECTION	REJECTION	ACCEPTANCE
COMPREHENSIVE EVALUATION	REJECTION							

FIG.20

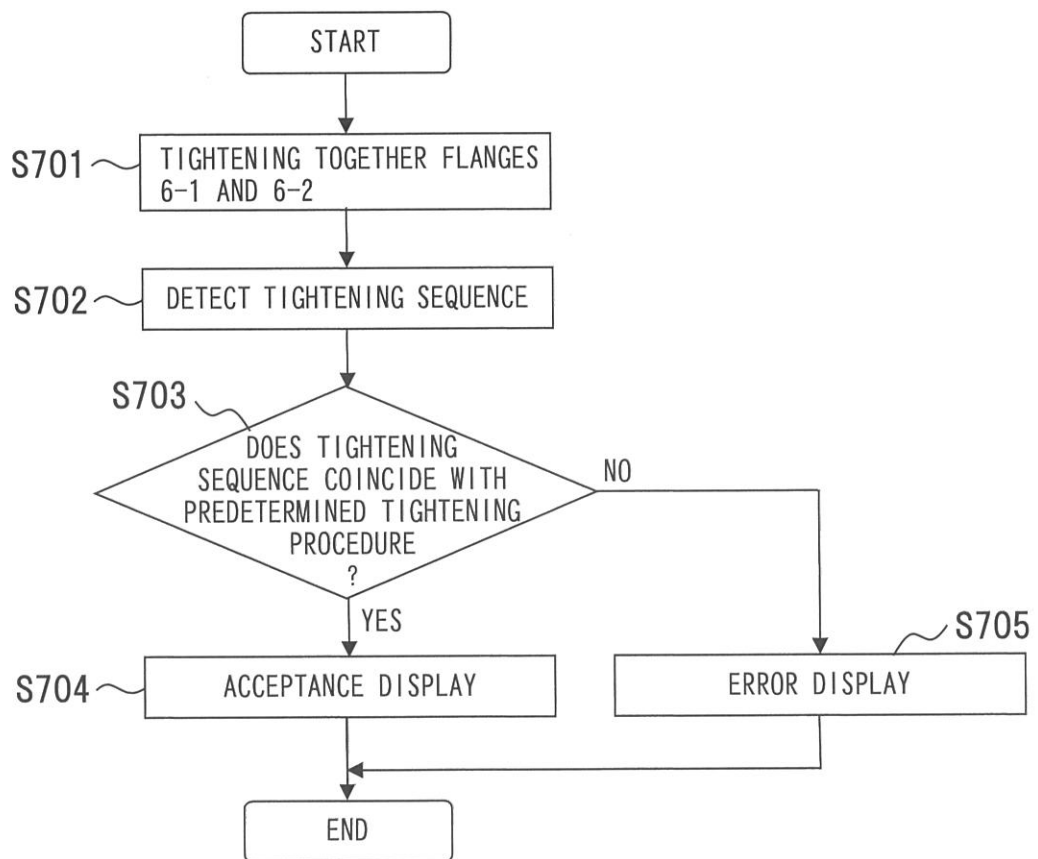


FIG.21

