

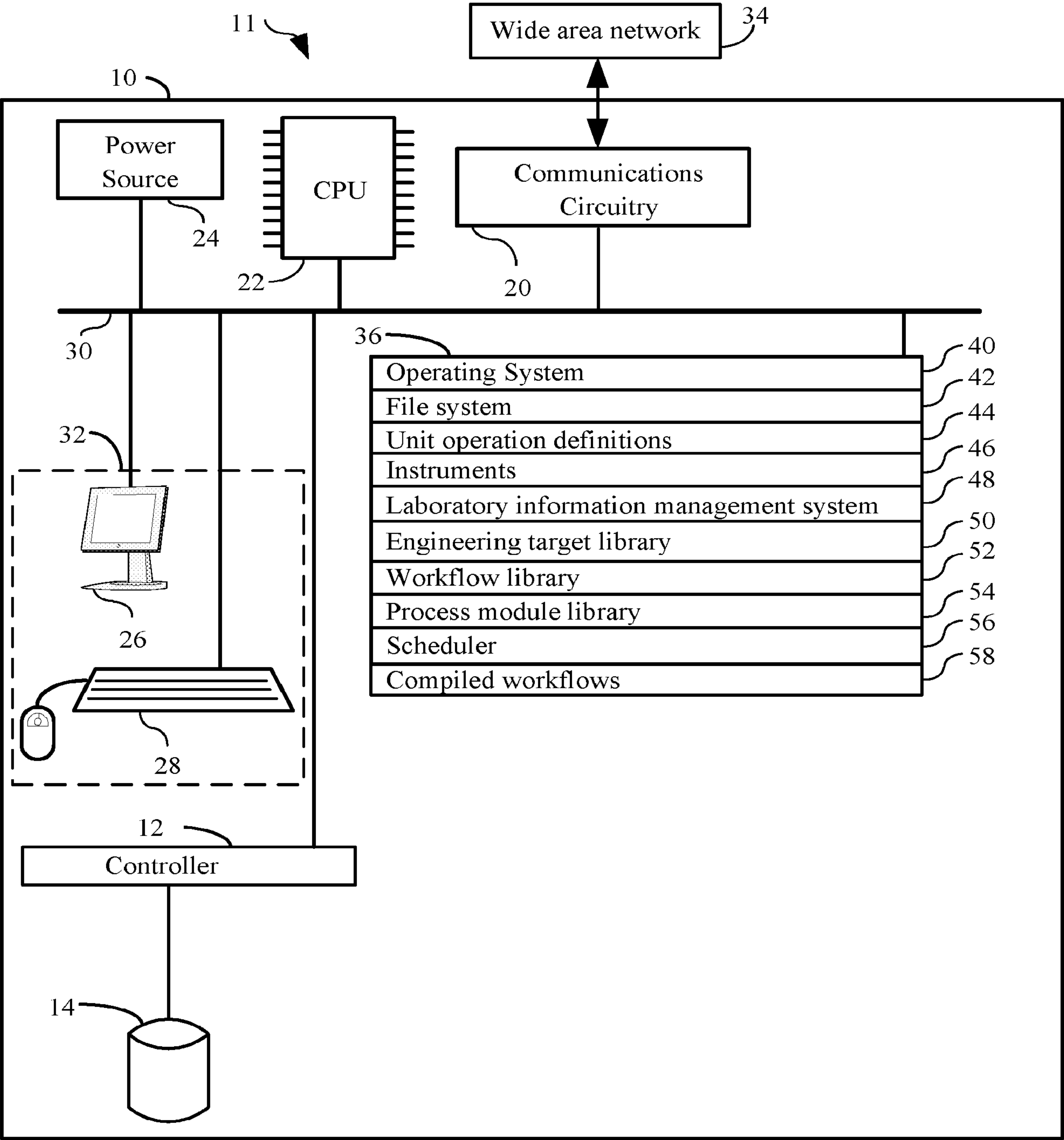


FIG. 1A

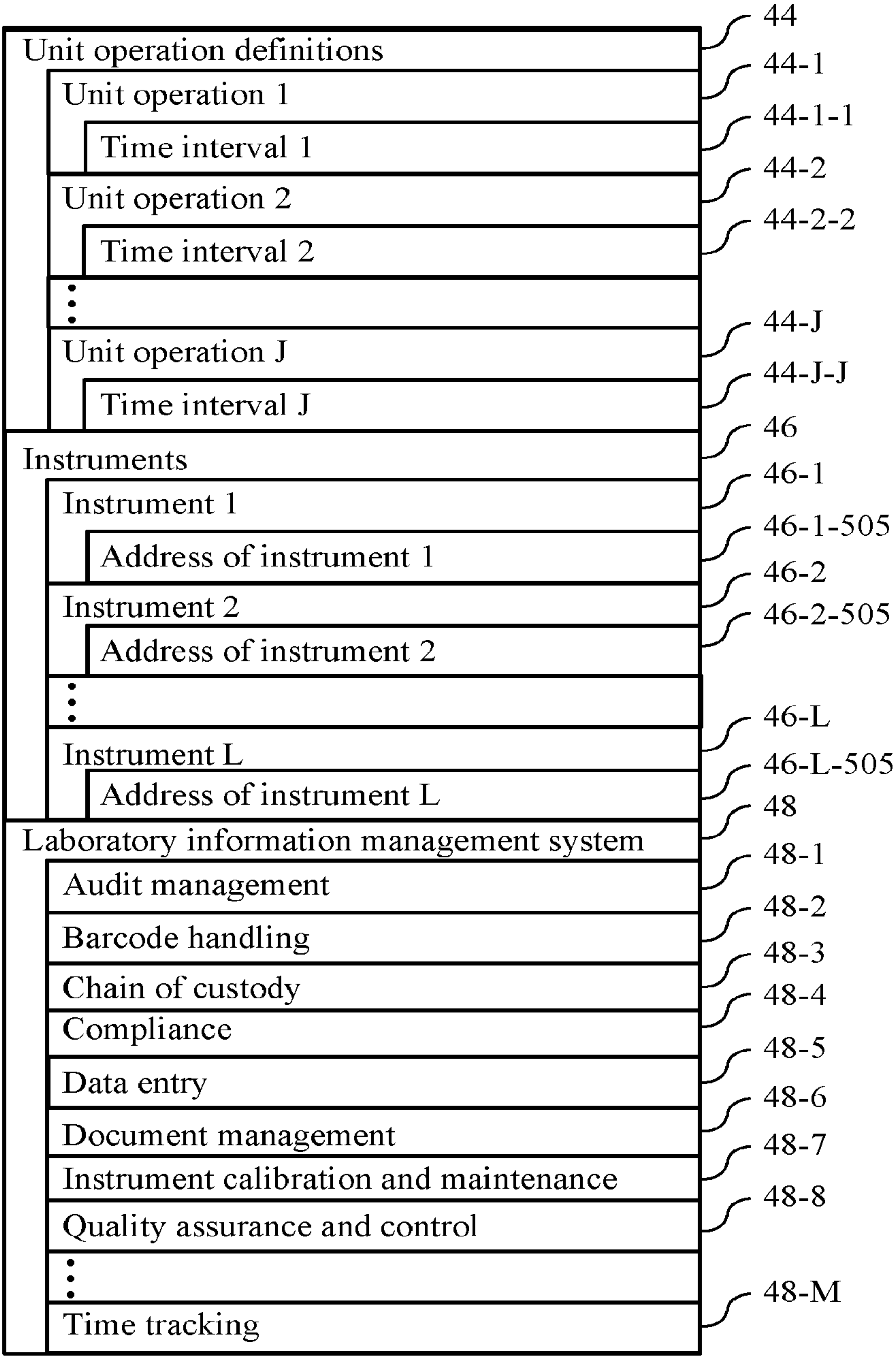


FIG. 1B

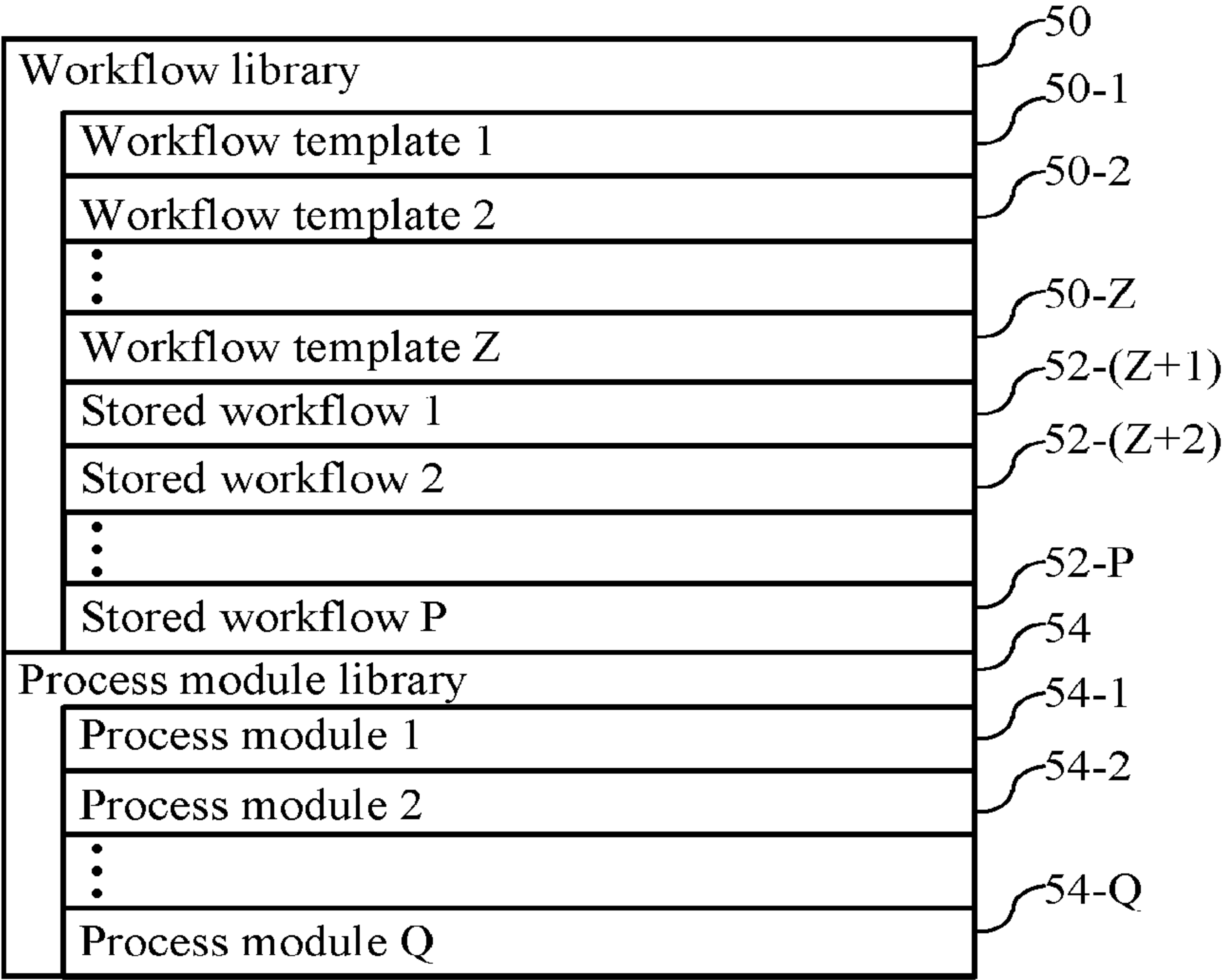


FIG. 1C

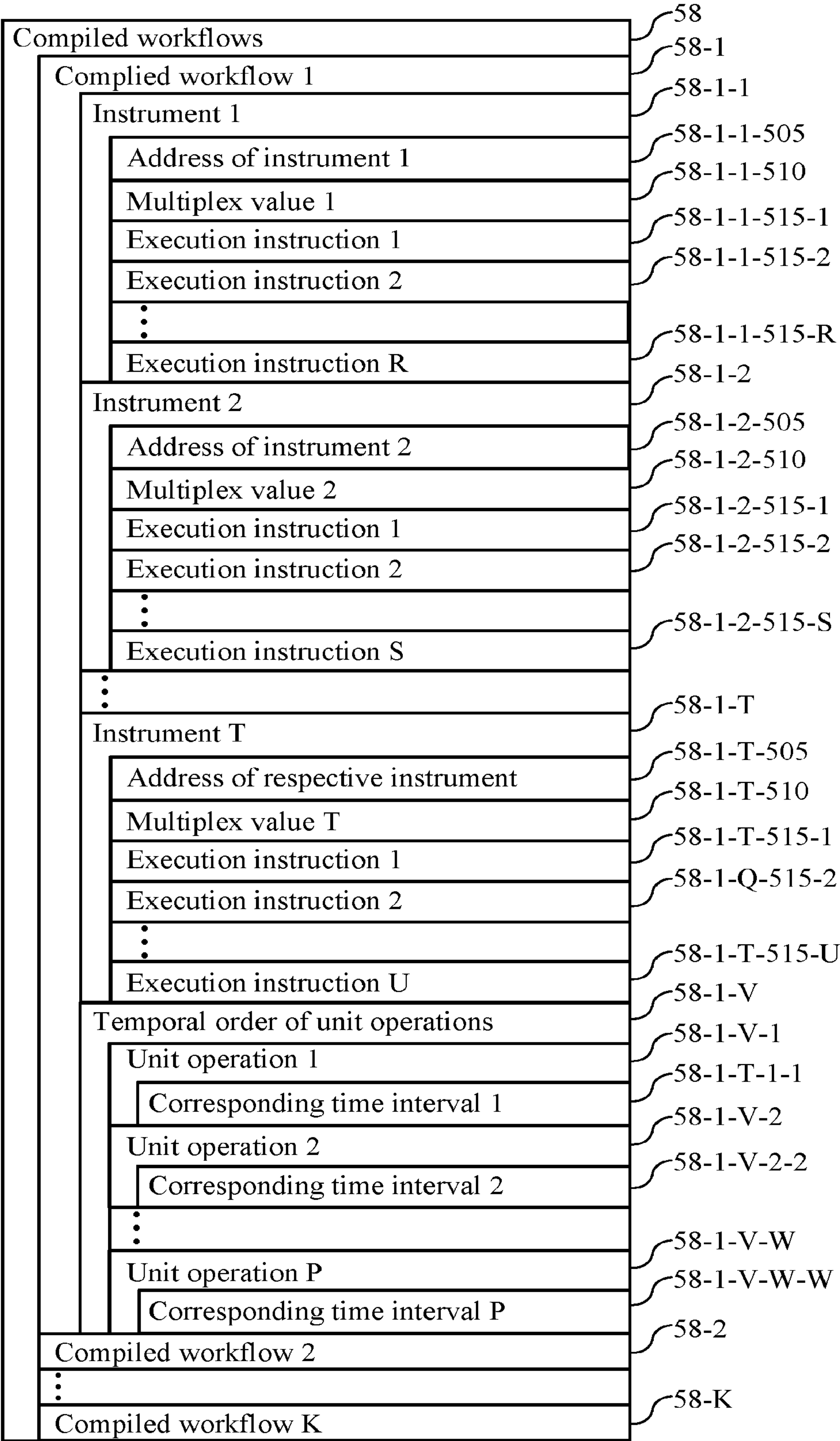


FIG. 1D

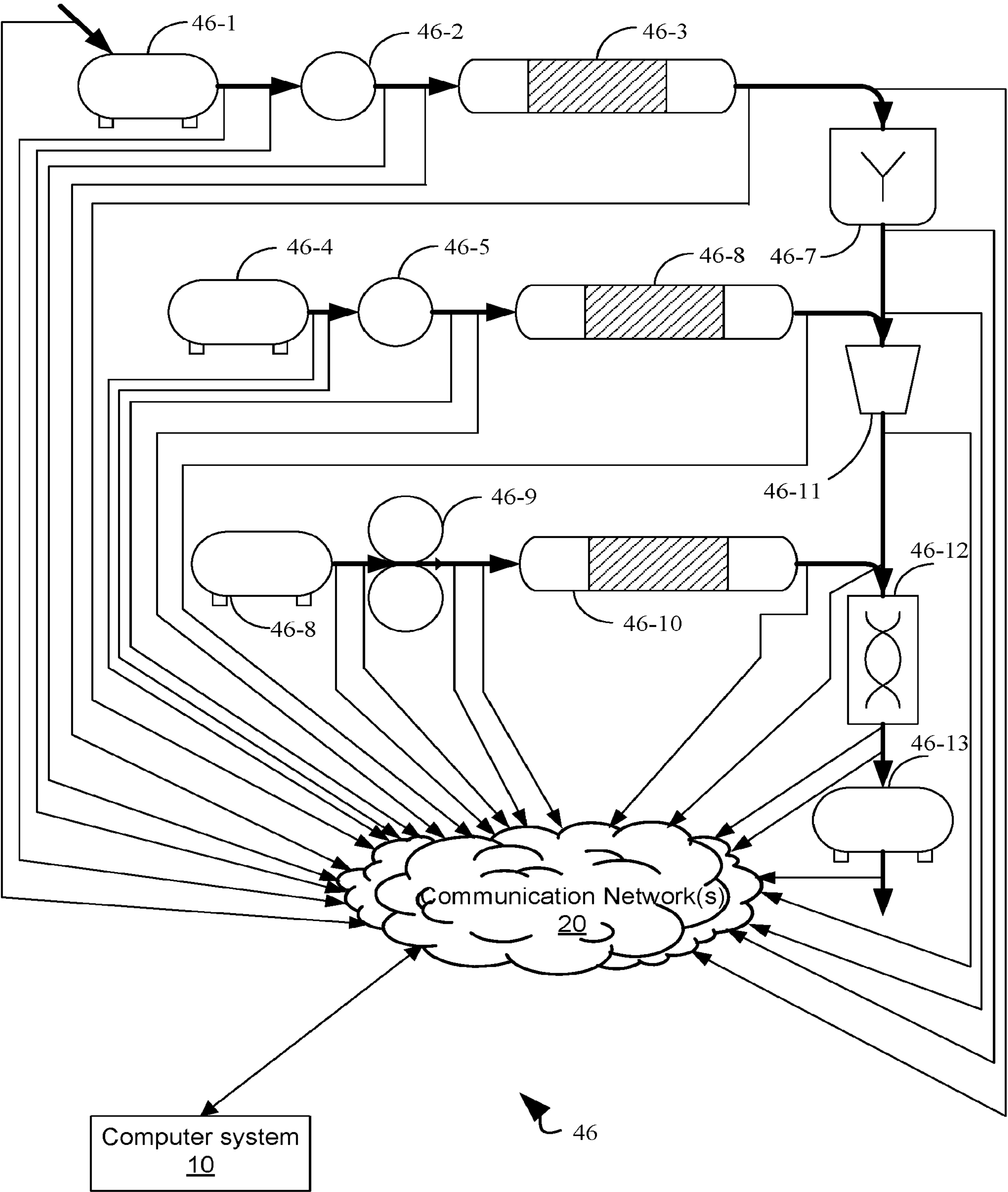


FIG. 2A

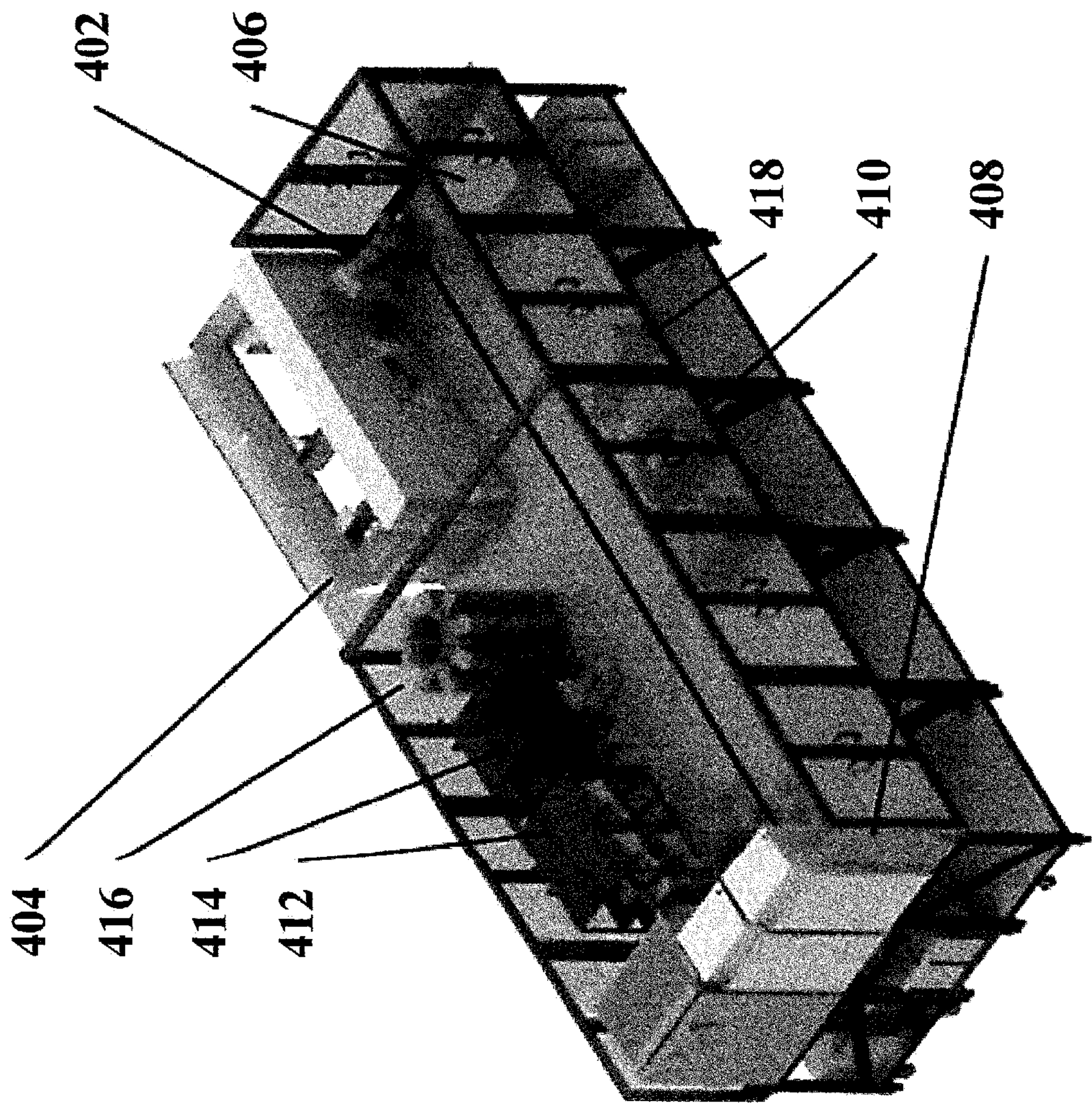


FIG. 2B

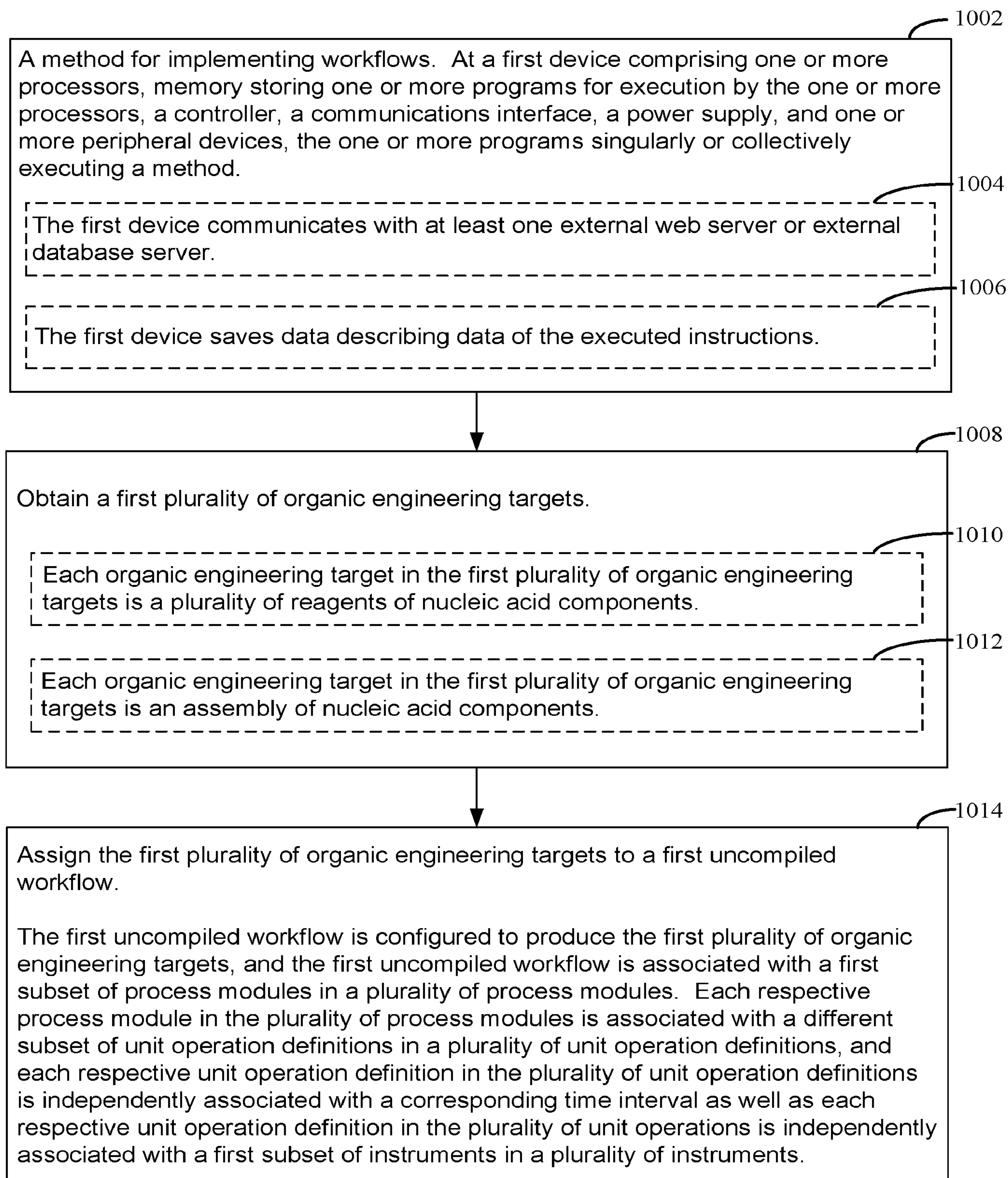


FIG. 3A

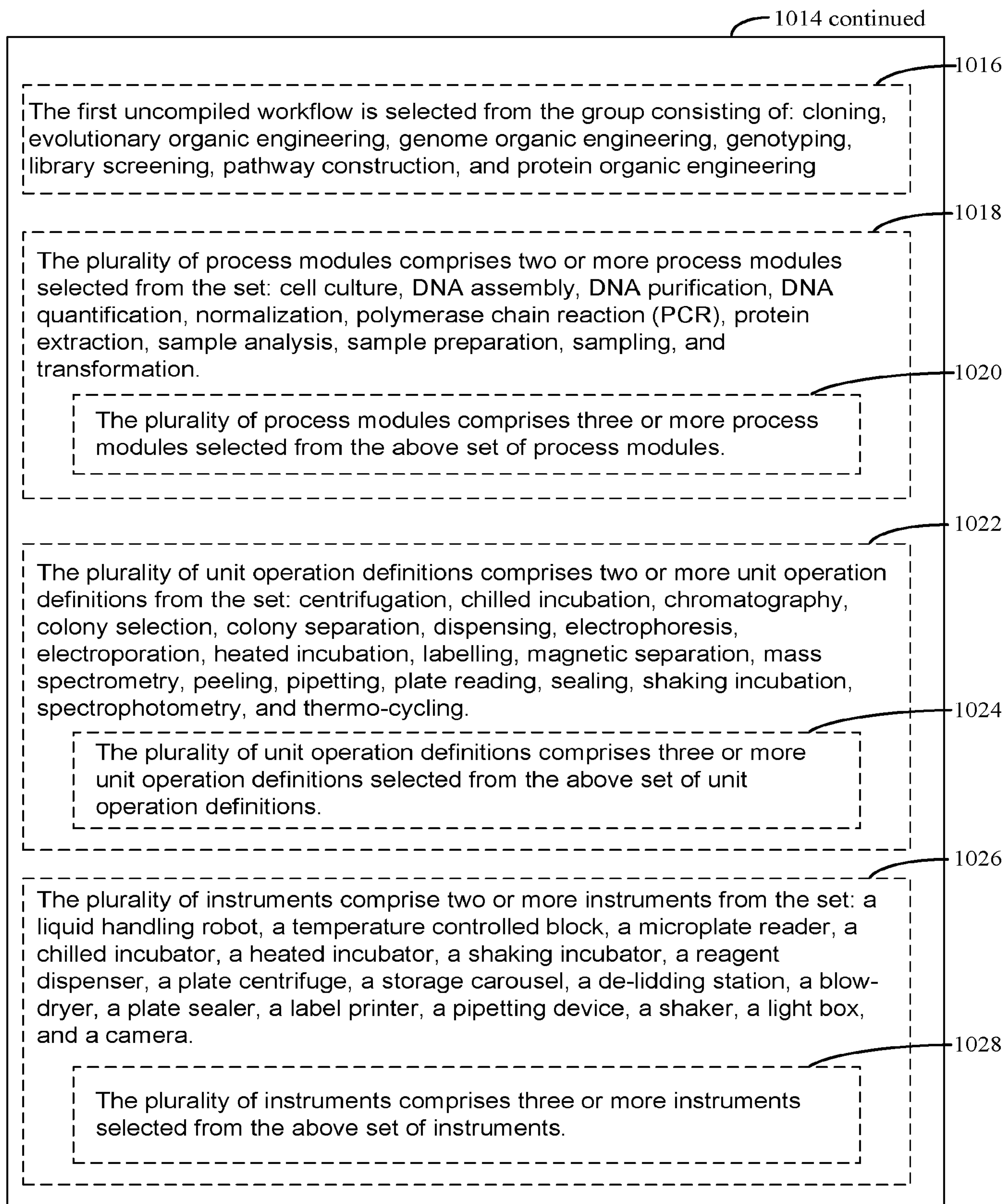
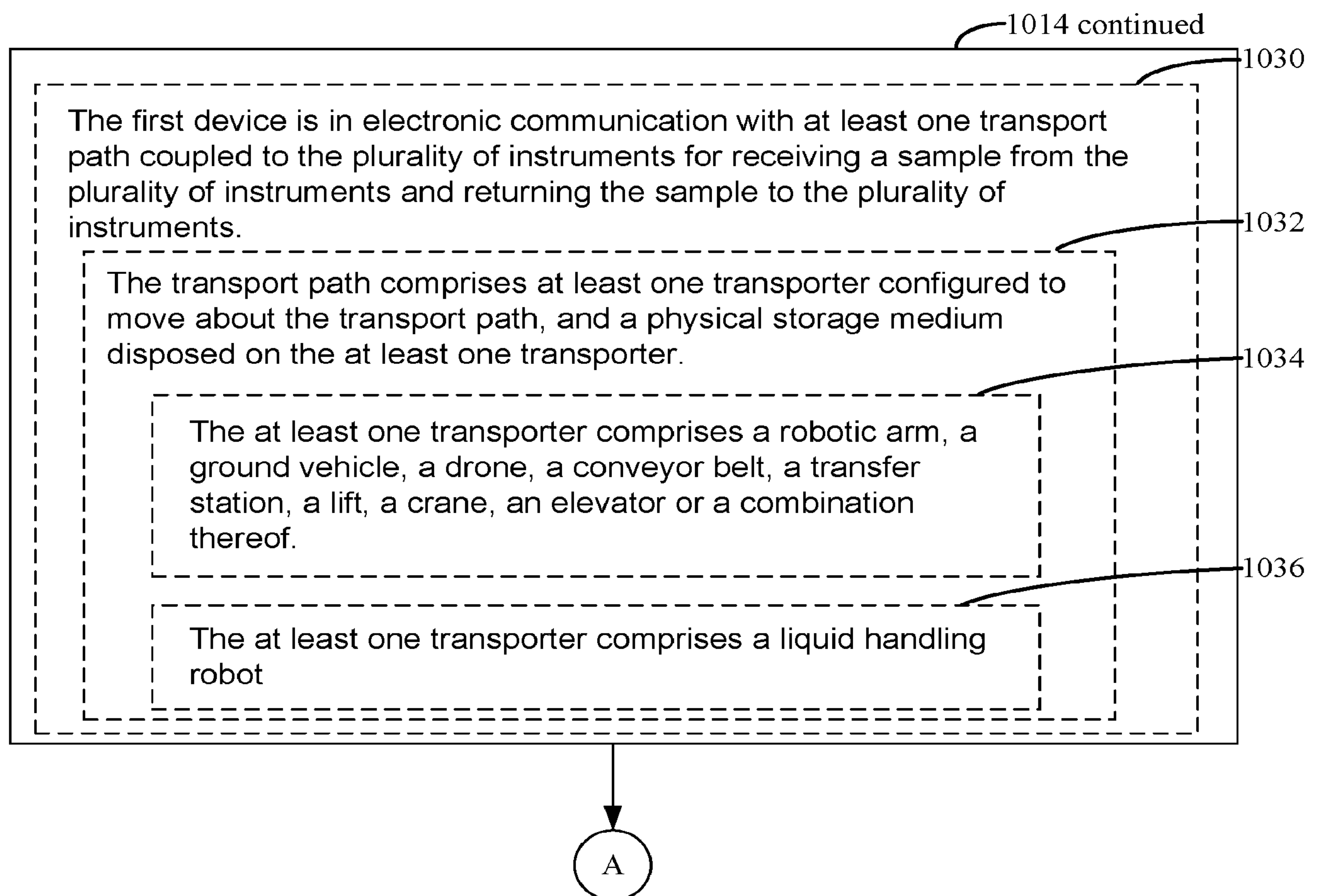


FIG. 3B

**FIG. 3C**

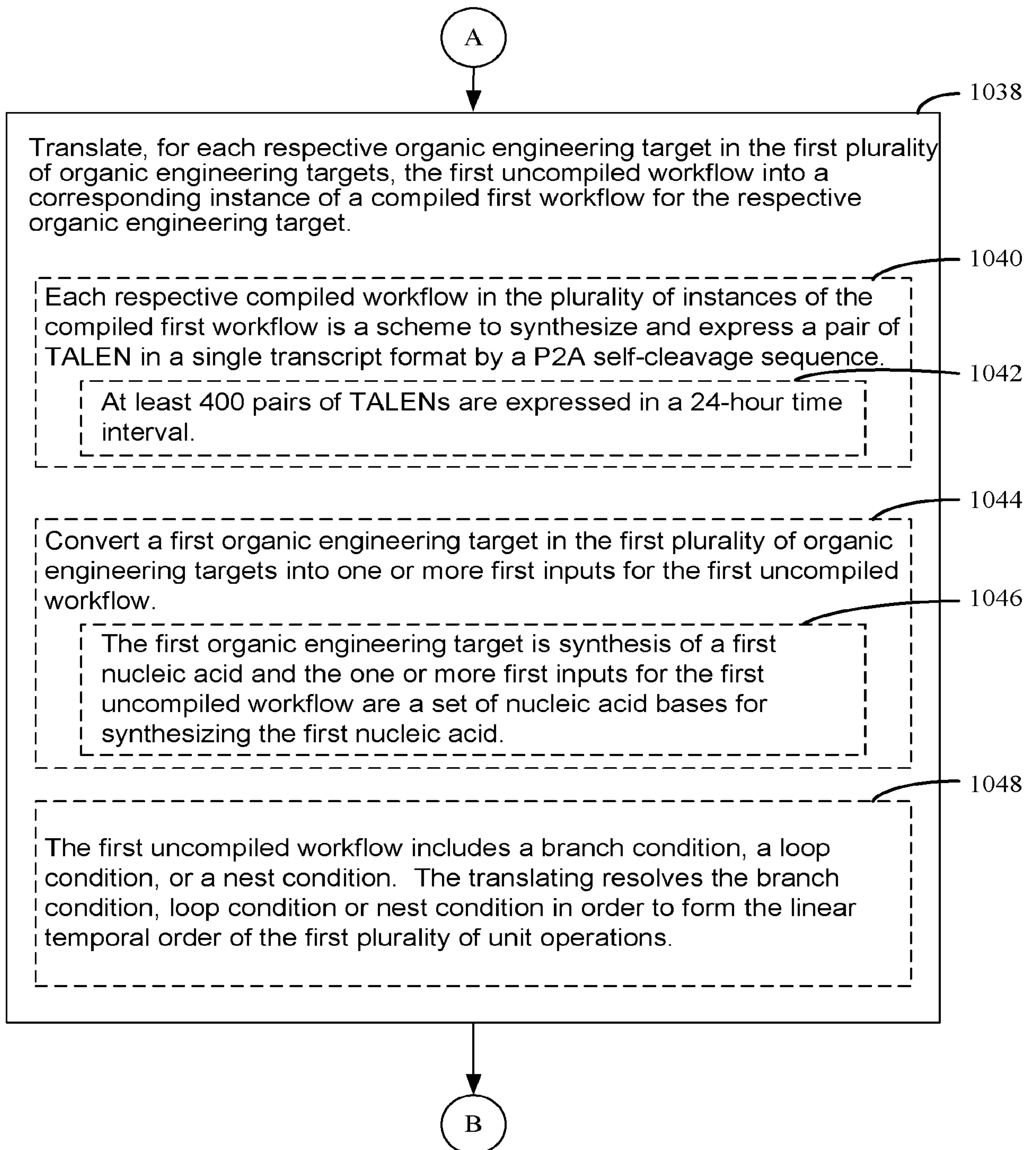


FIG. 3D

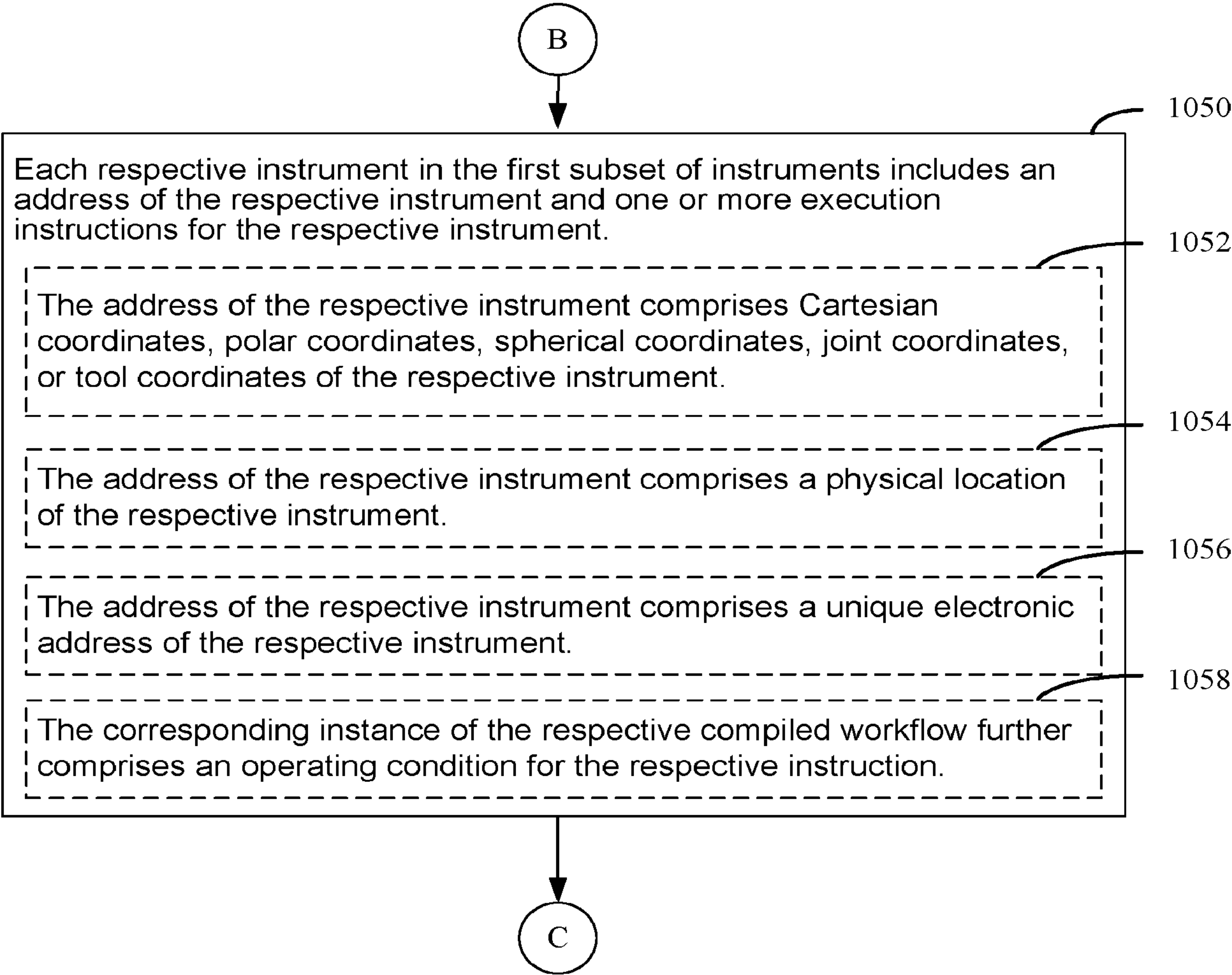


FIG. 3E

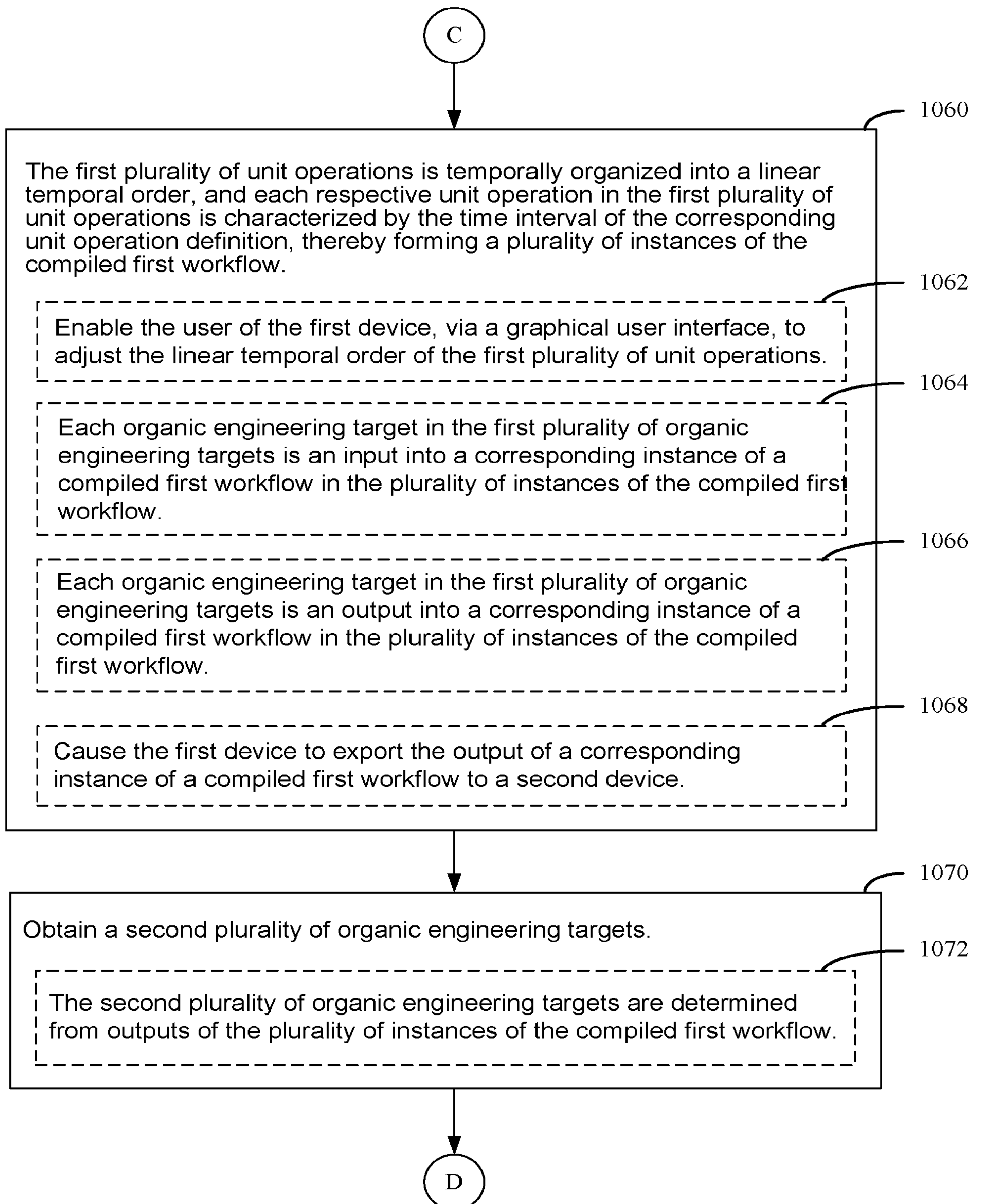


FIG. 3F

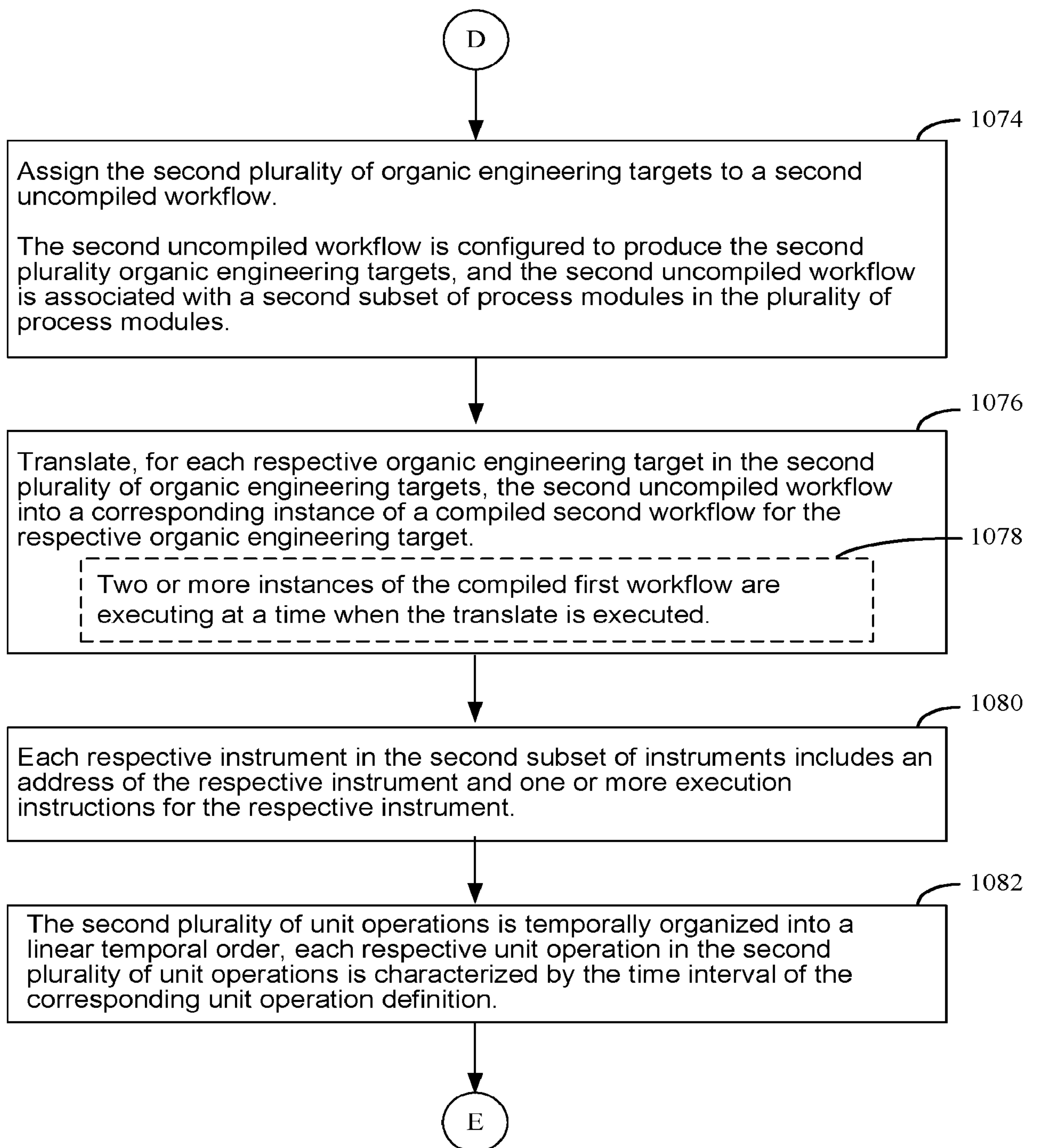
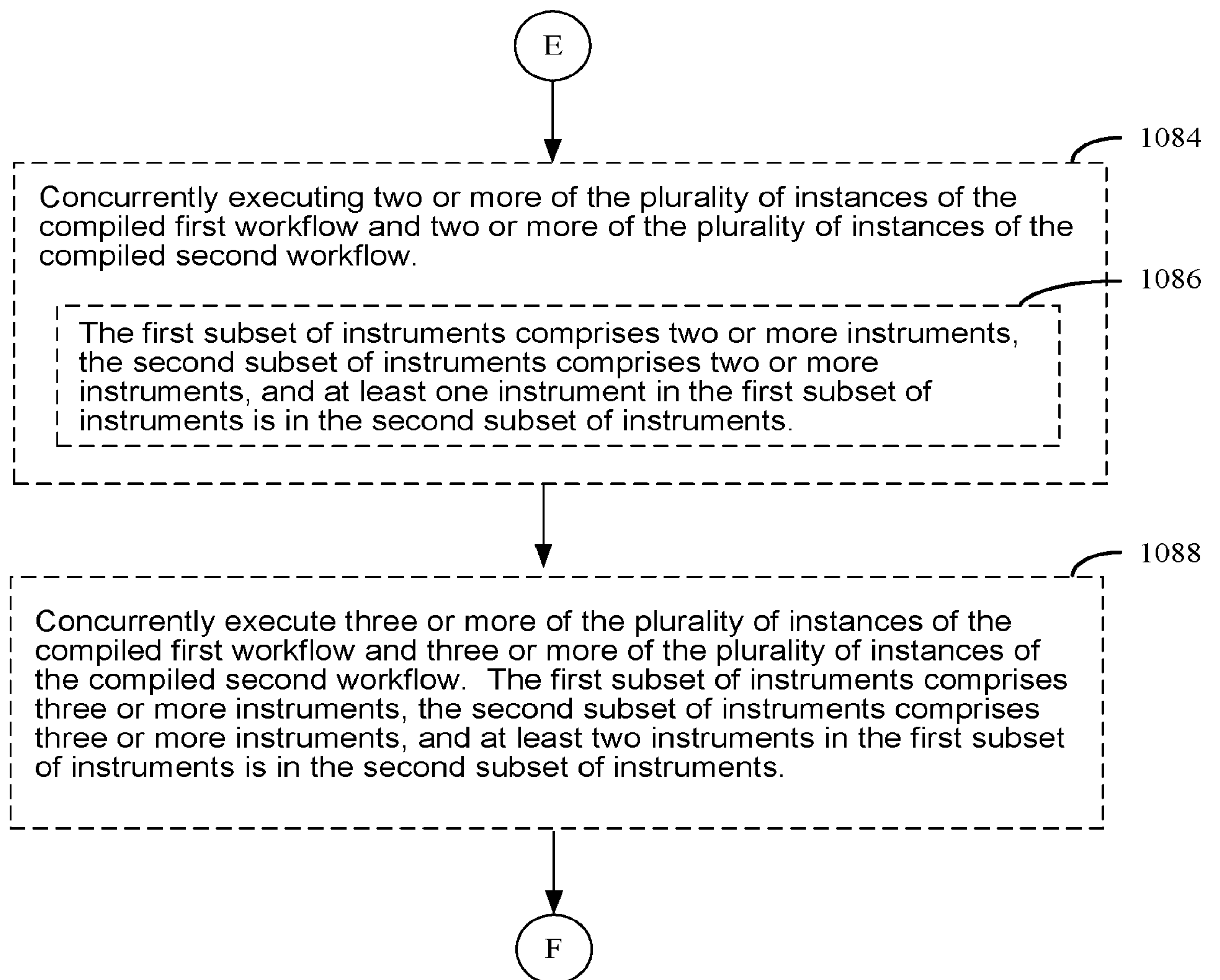


FIG. 3G

**FIG. 3H**

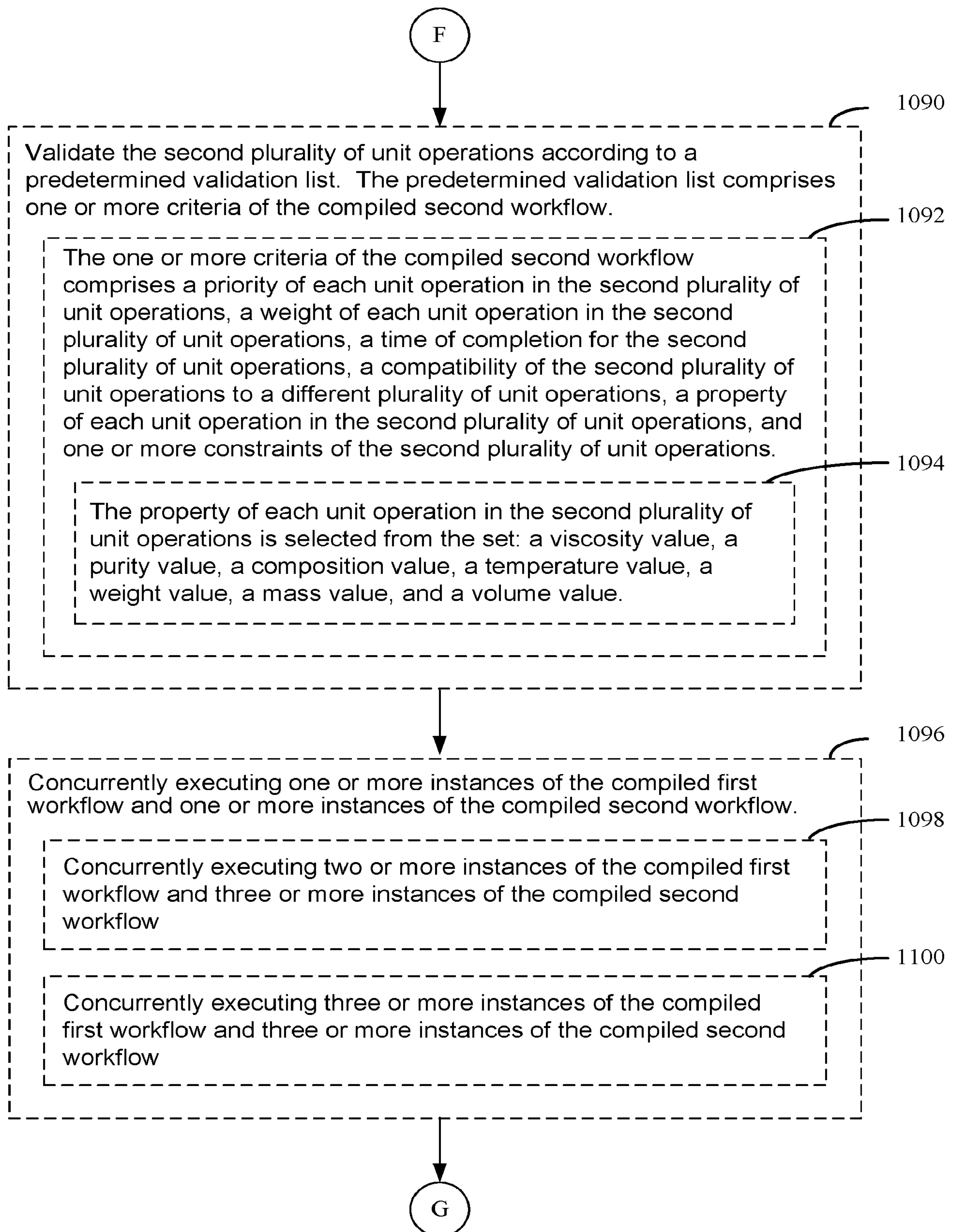
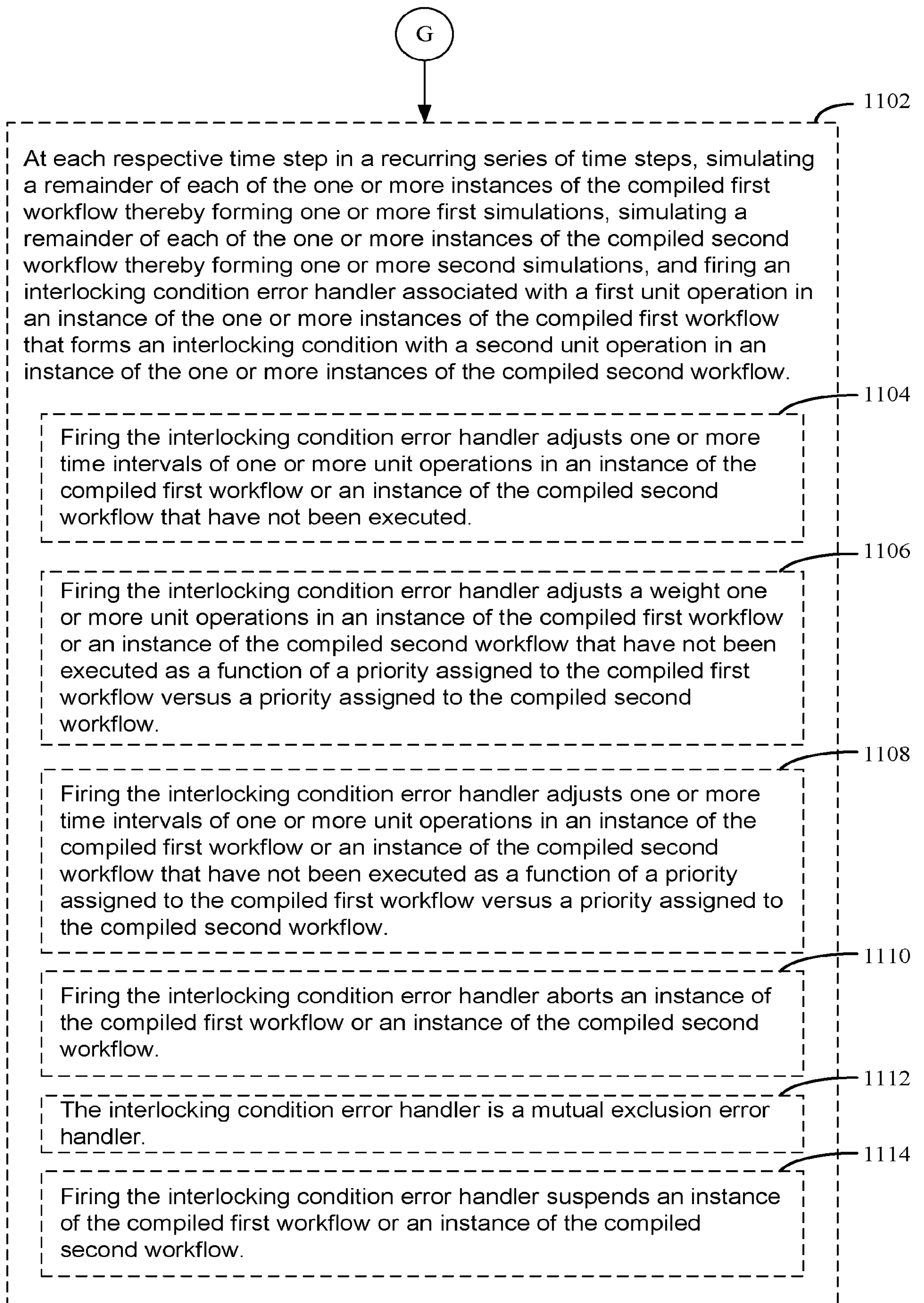


FIG. 3I

**FIG. 3J**

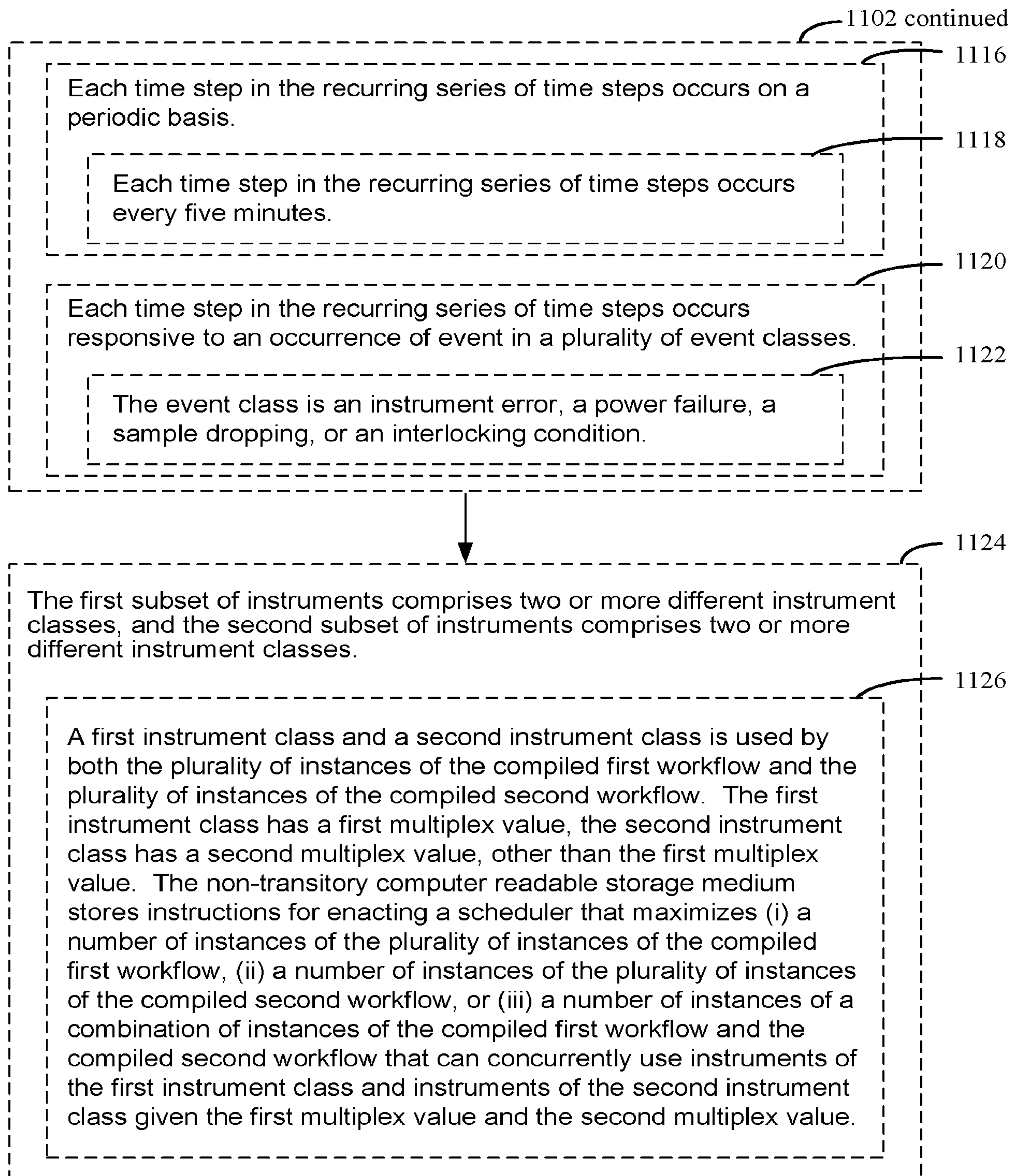


FIG. 3K

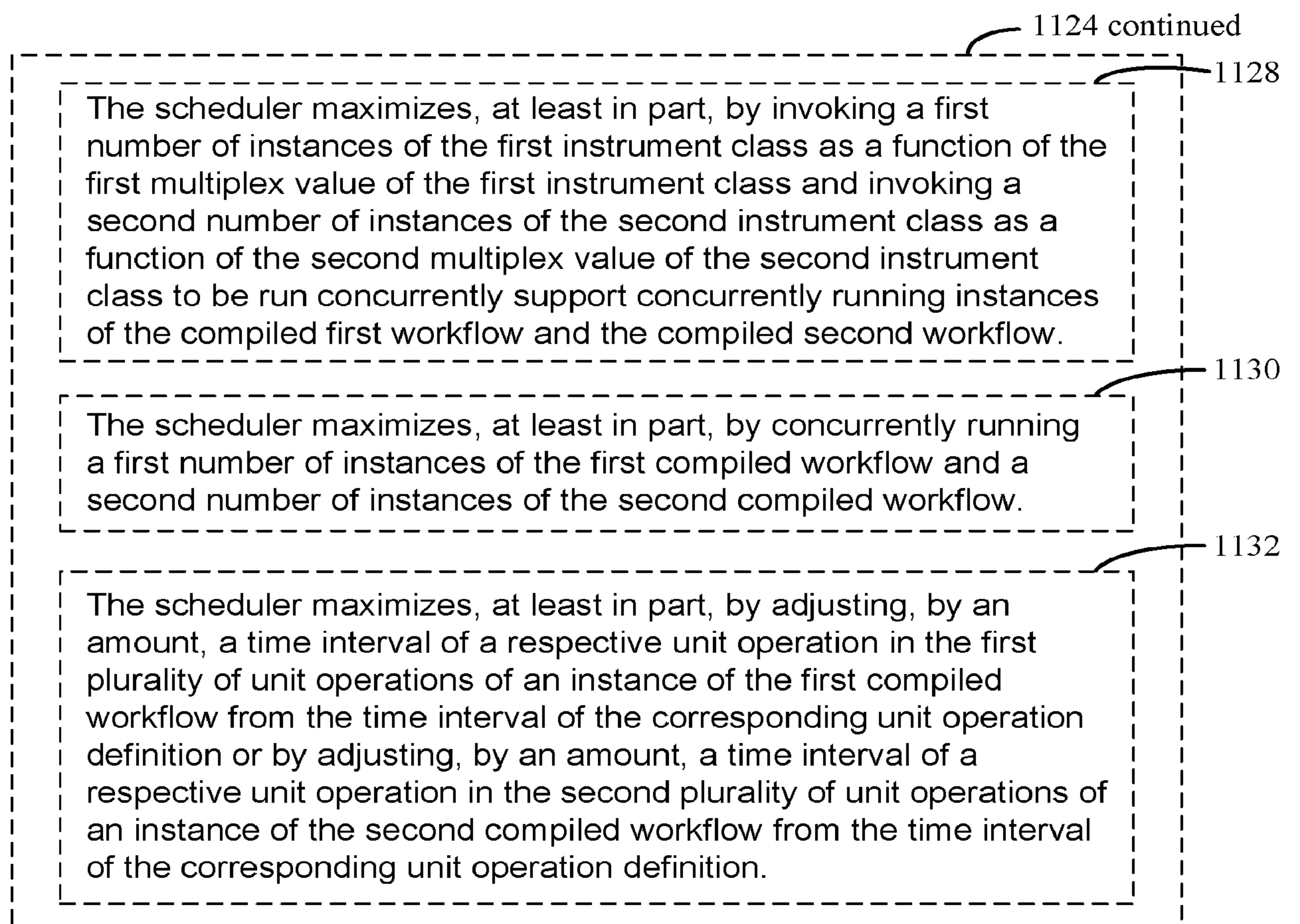


FIG. 3L

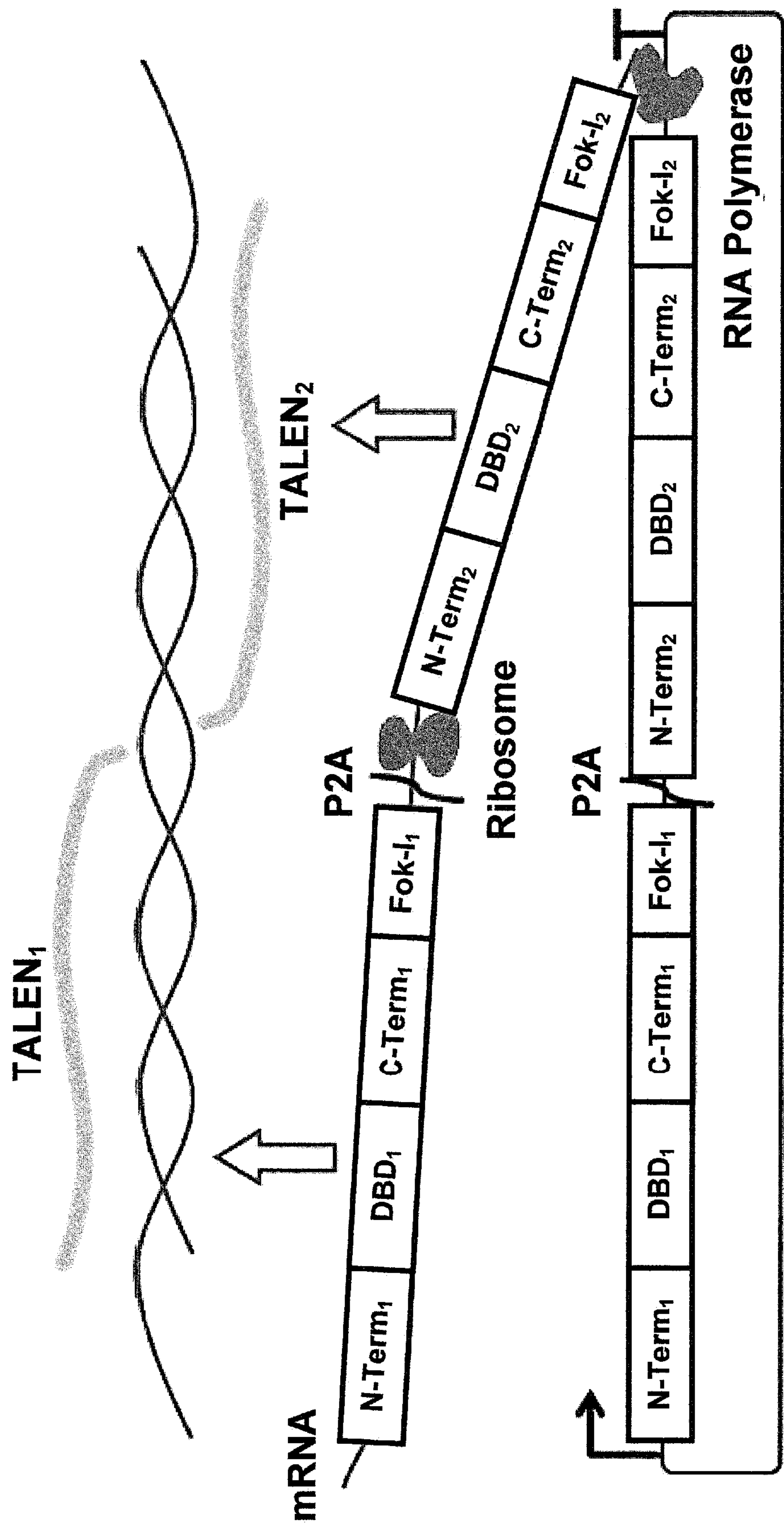


FIG. 4A

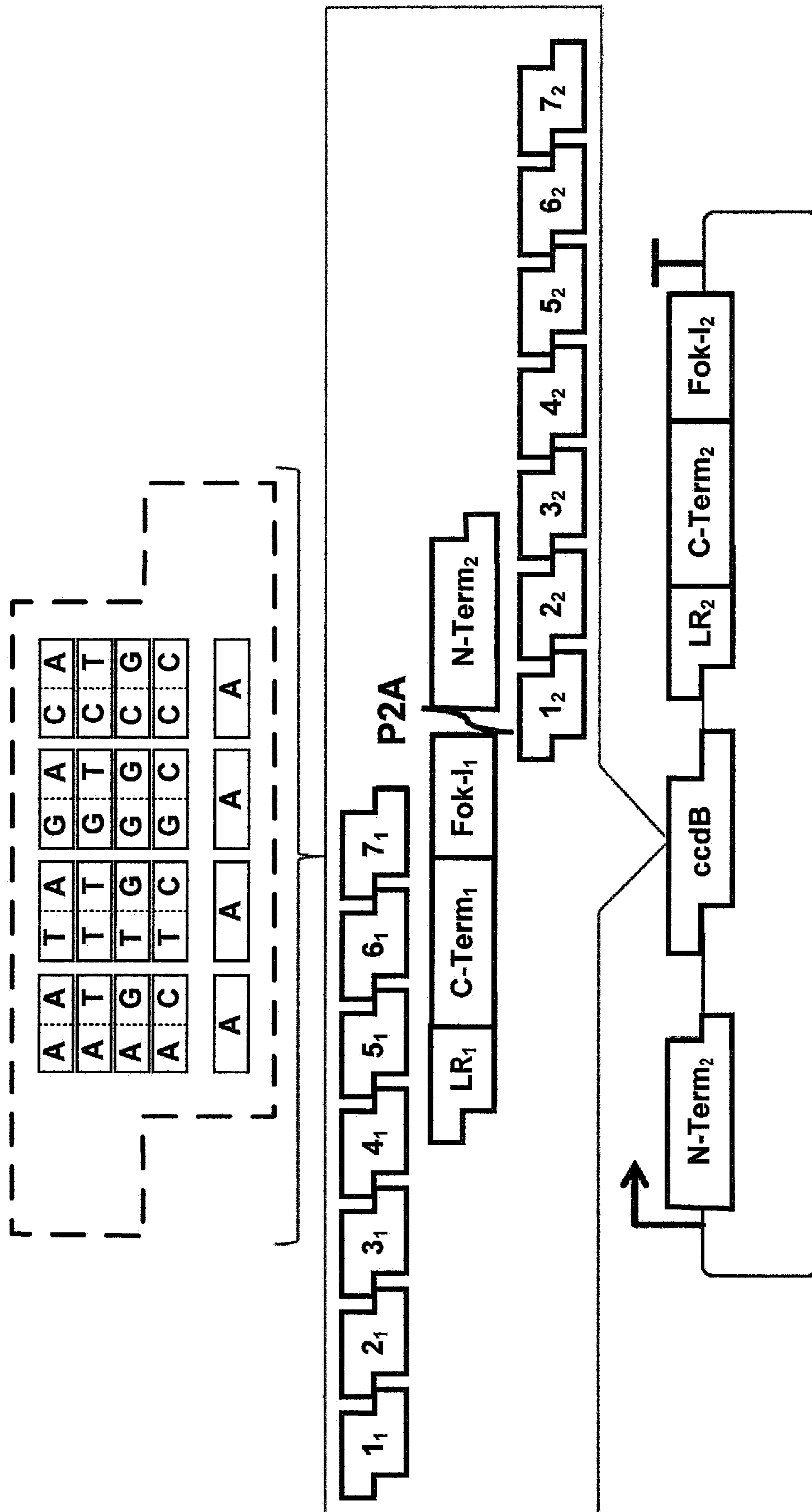


FIG. 4B

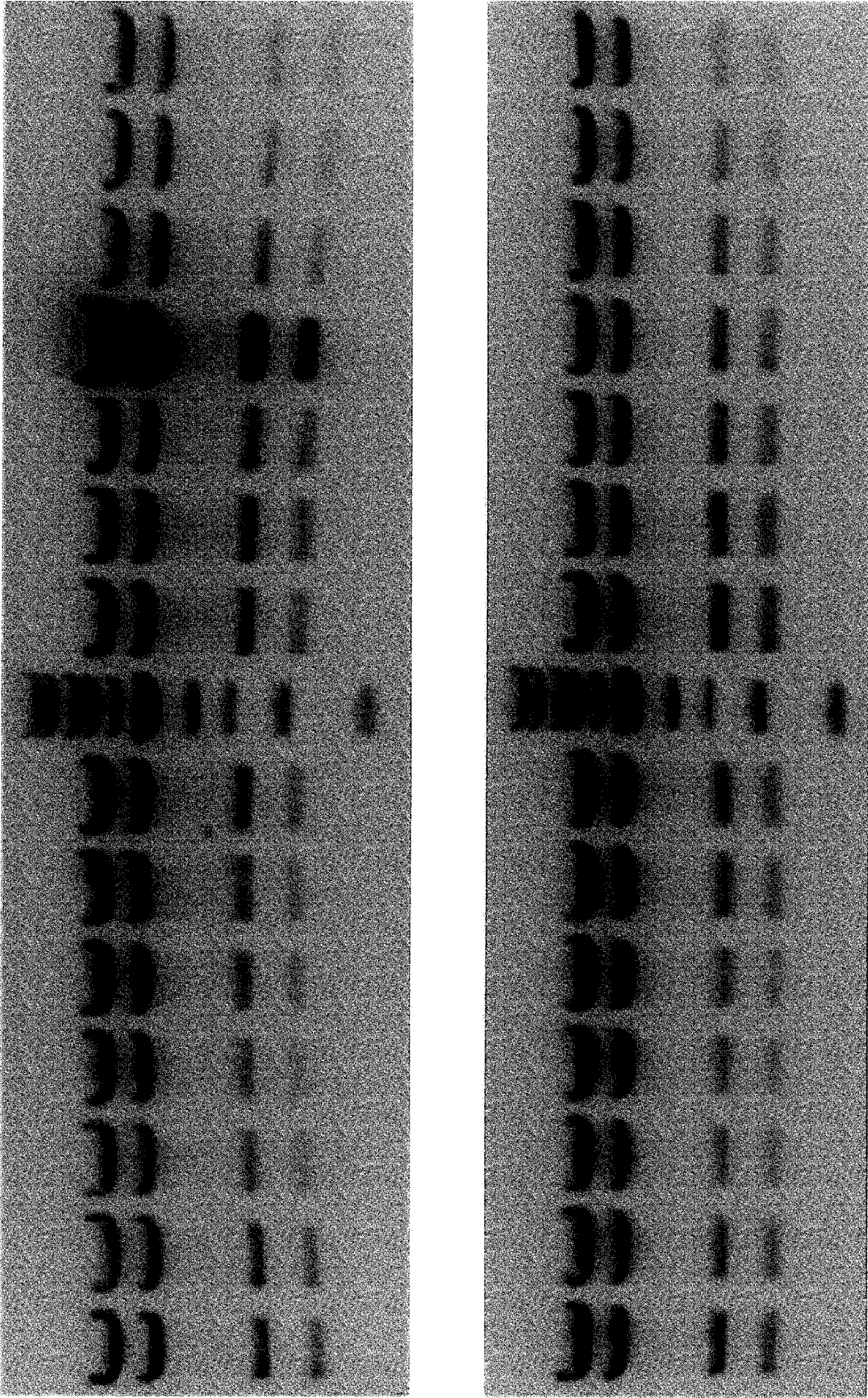


FIG. 4C

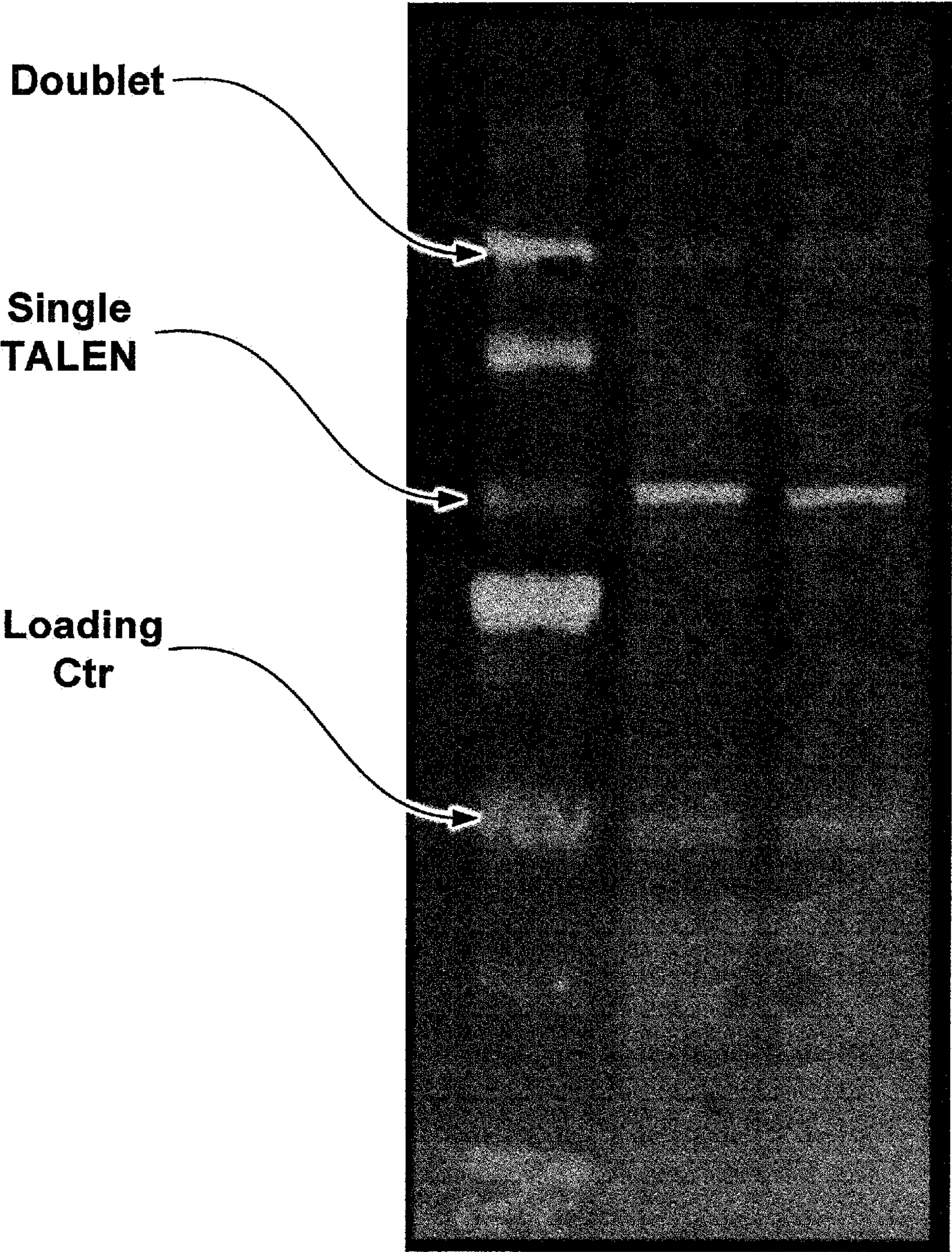


FIG. 5A
SUBSTITUTE SHEET (RULE 26)

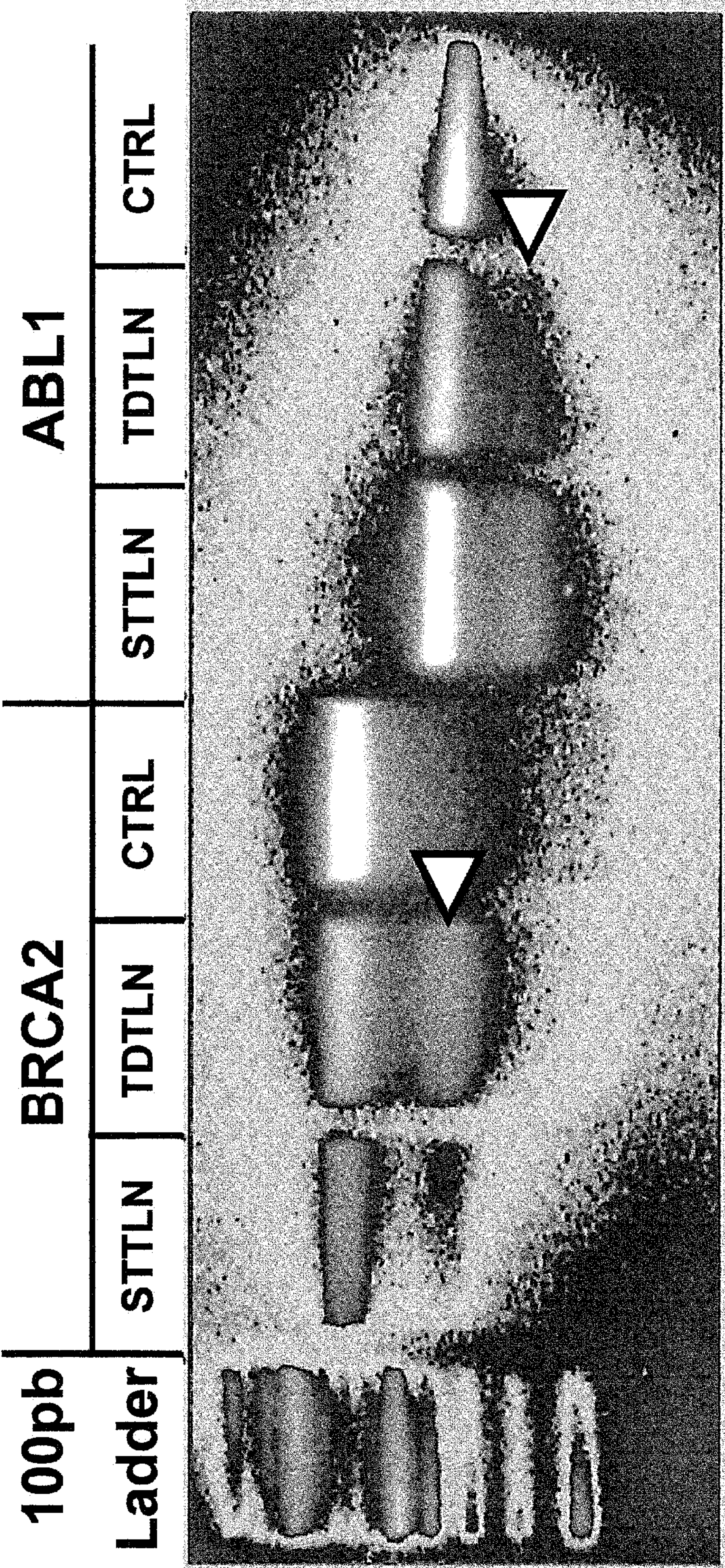


FIG. 5B

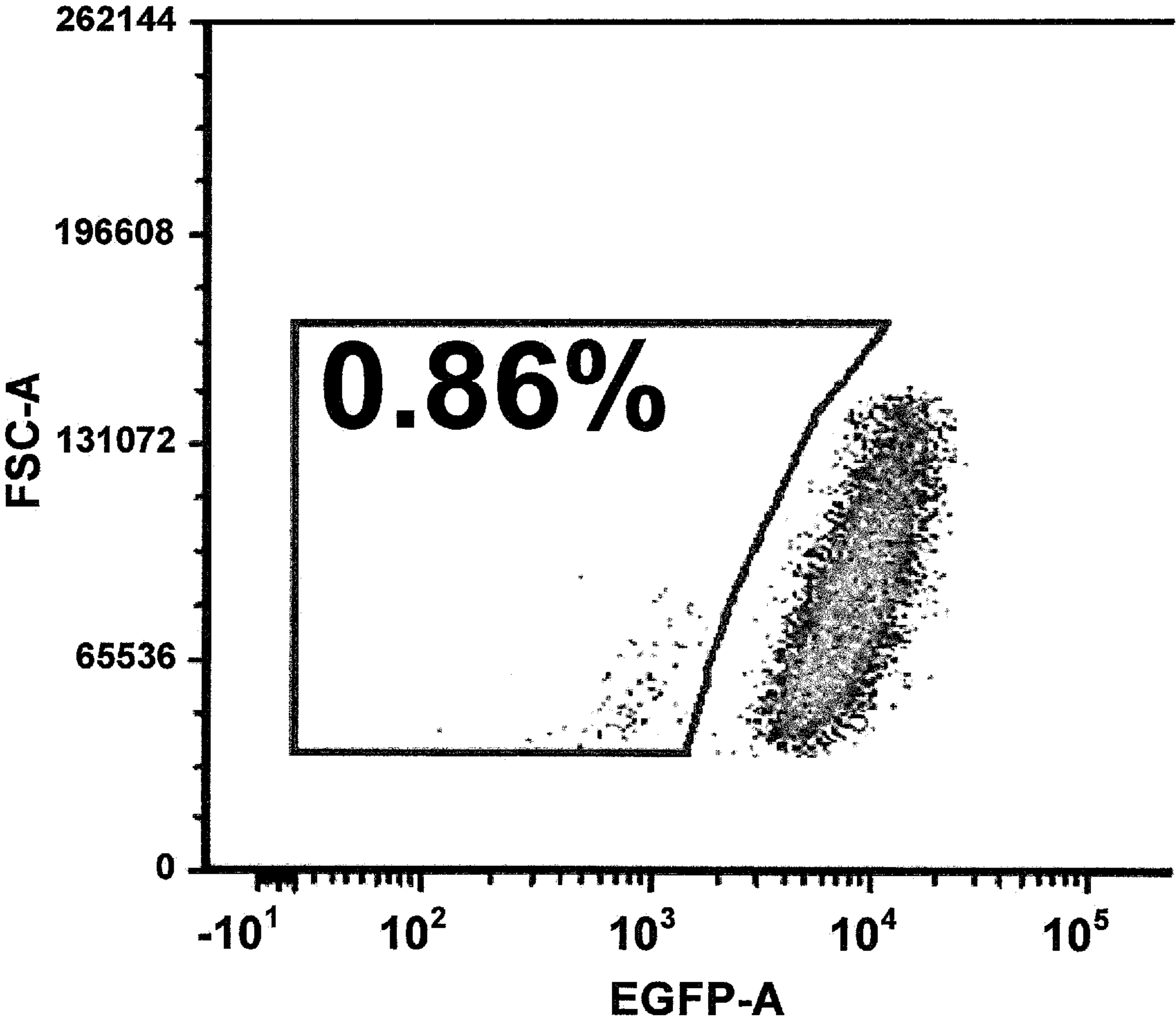


FIG. 5C

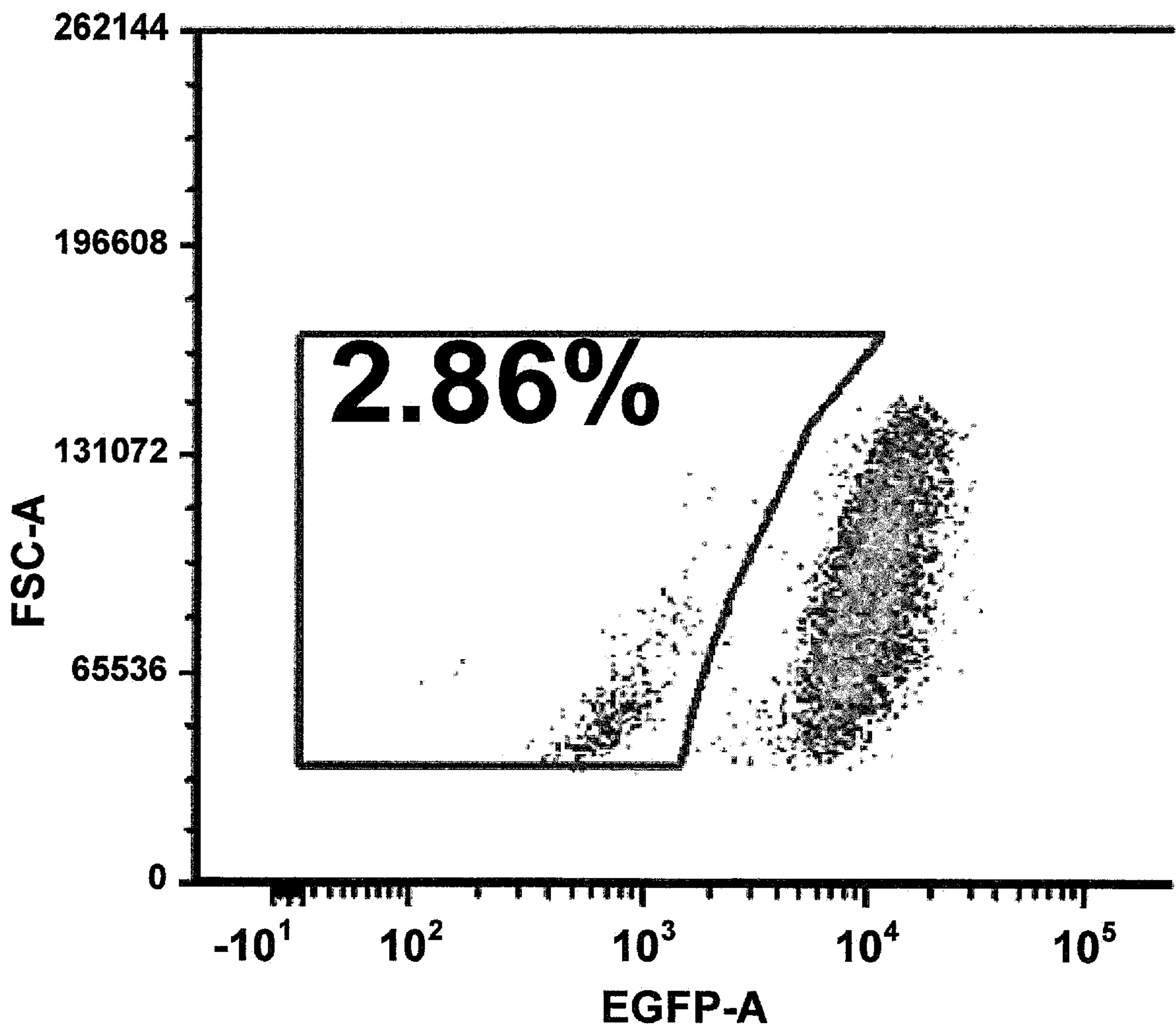
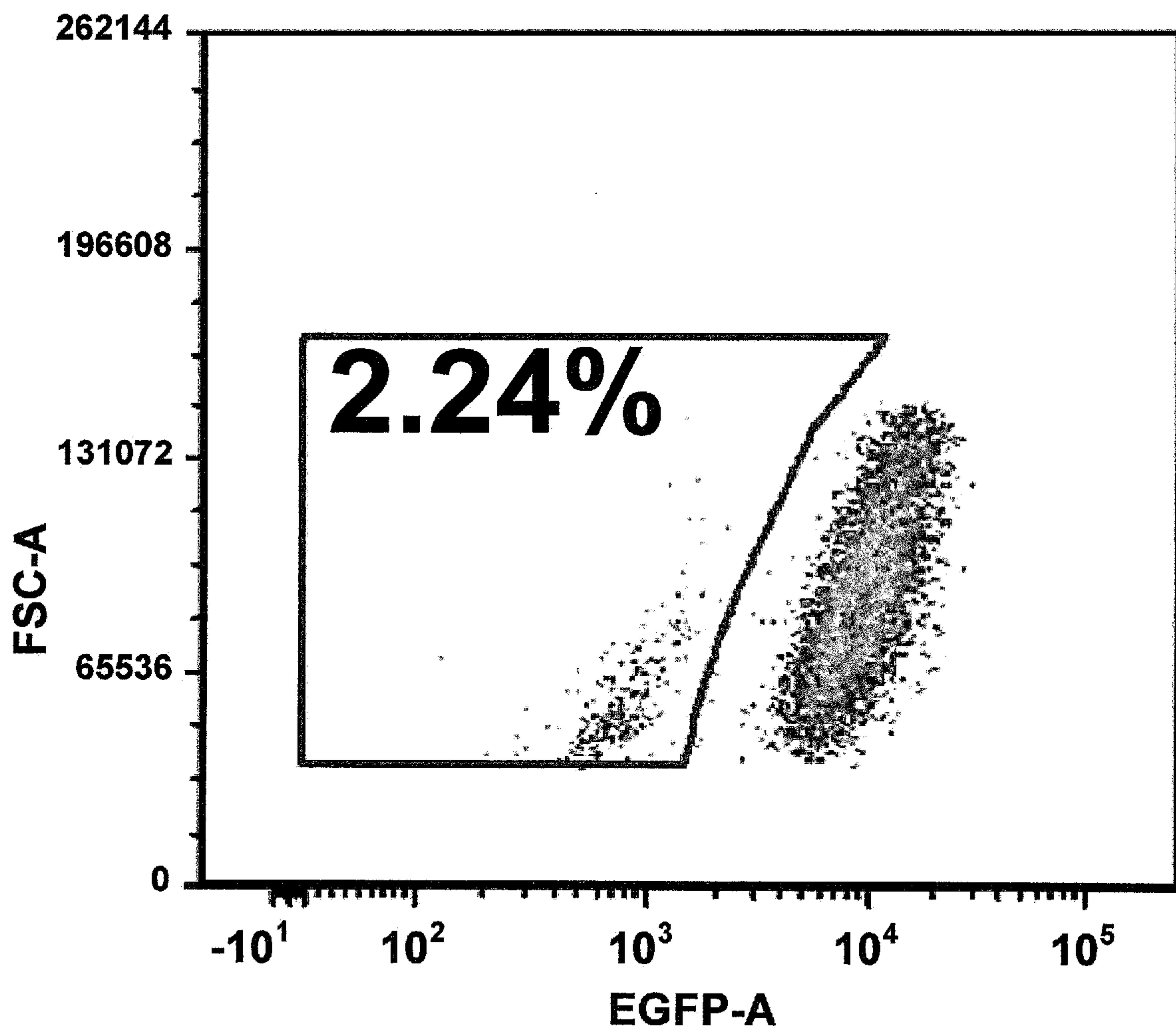


FIG. 5D

**FIG. 5E**

SUBSTITUTE SHEET (RULE 26)

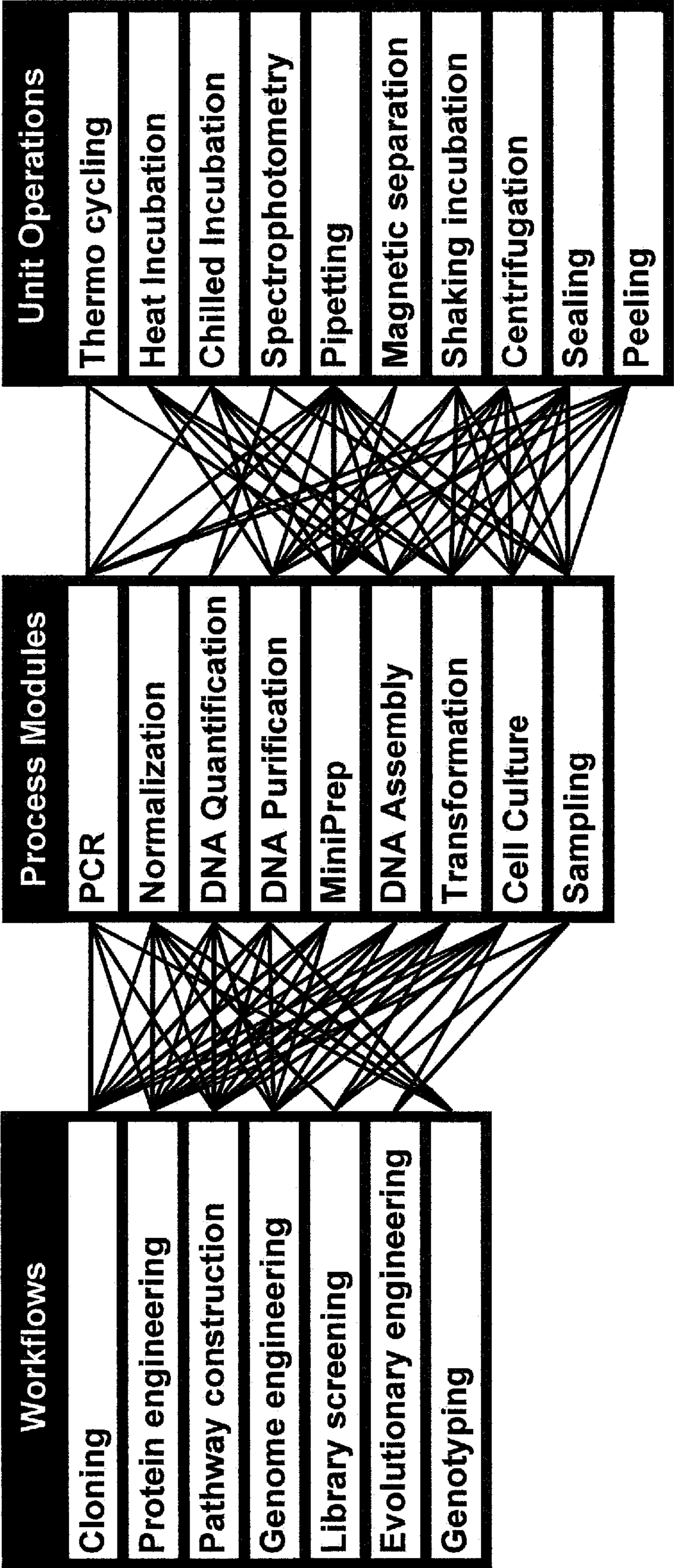


FIG. 6A

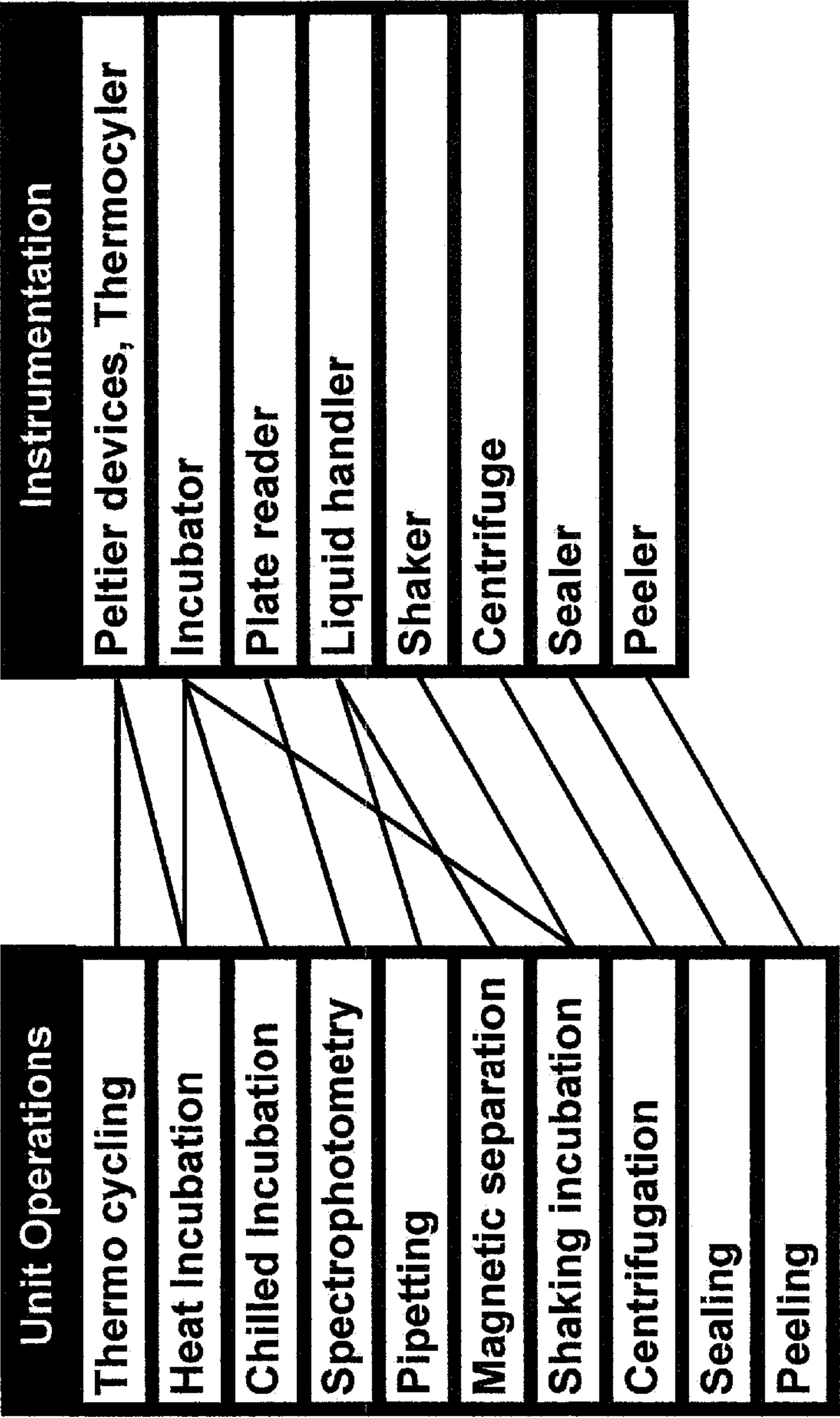


FIG. 6B

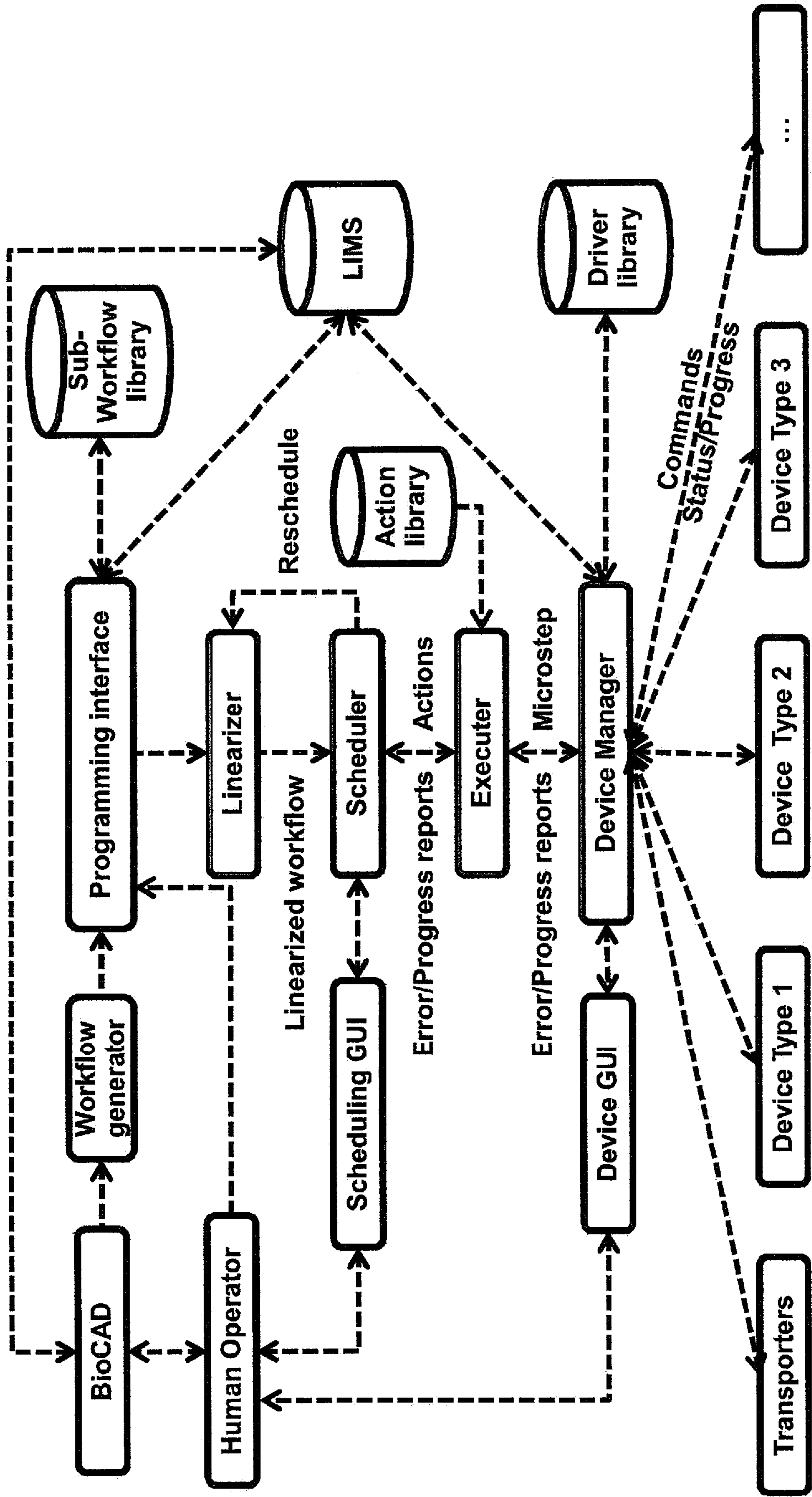


FIG. 6C

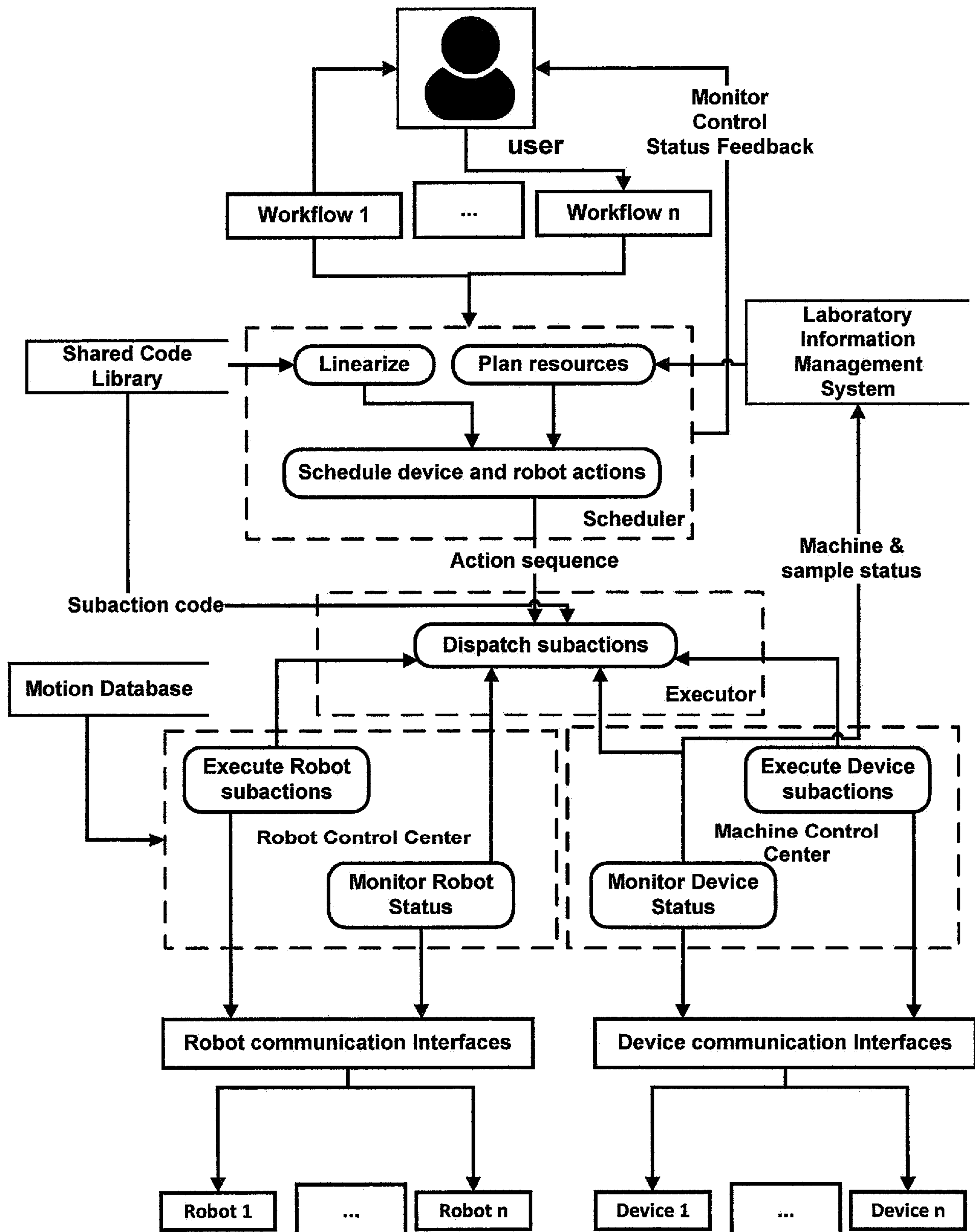


FIG. 6D

SUBSTITUTE SHEET (RULE 26)

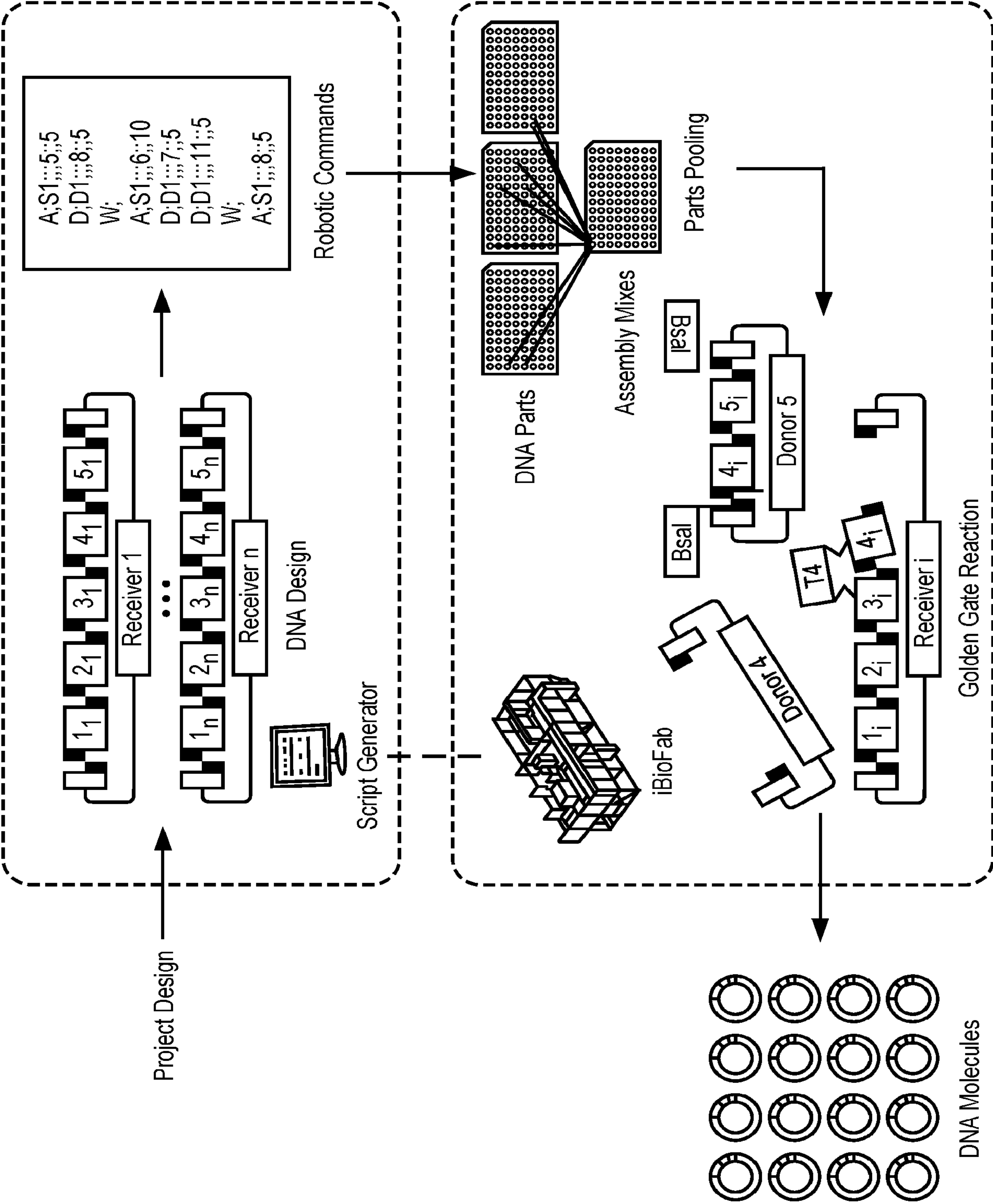


FIG. 7A

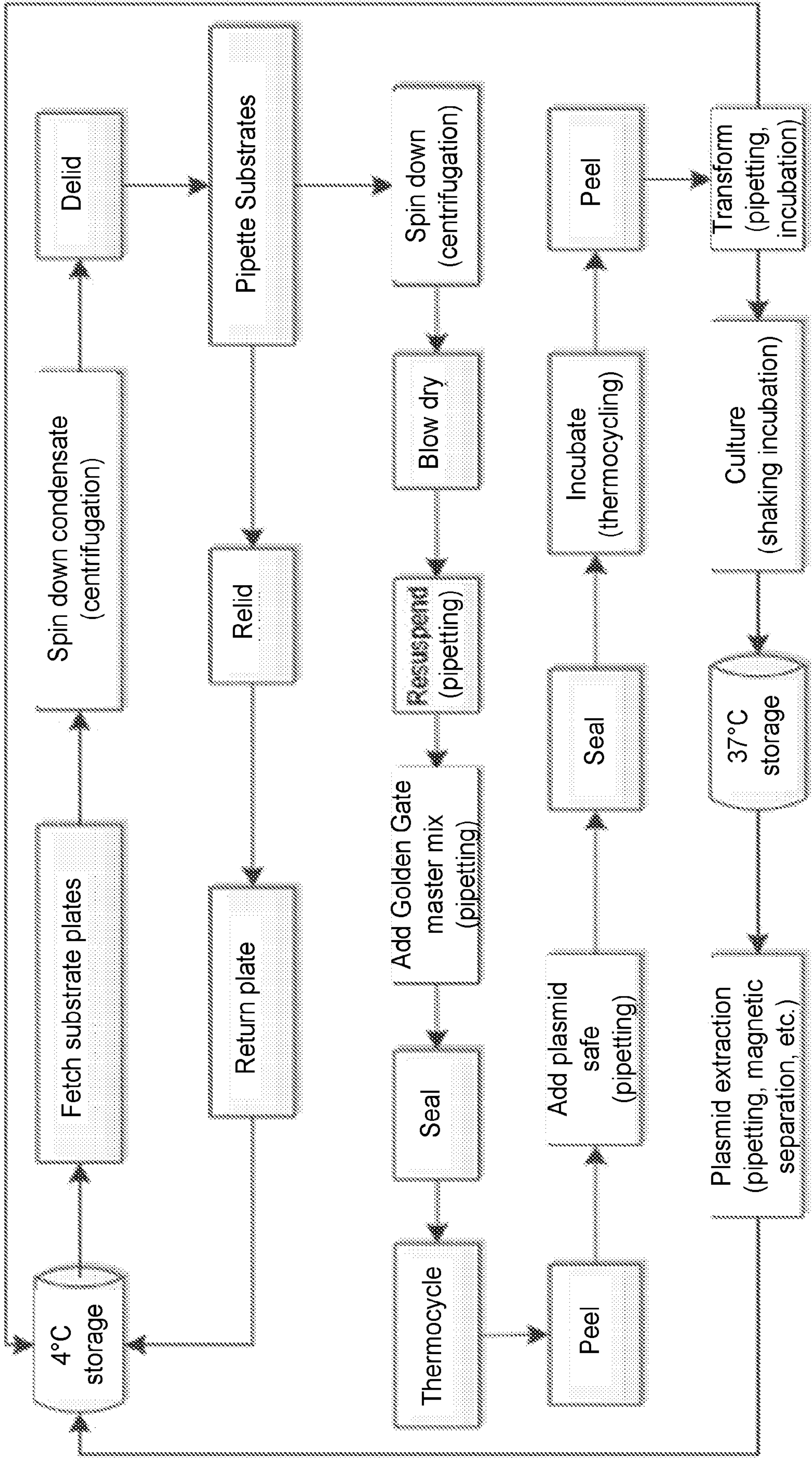


FIG. 7B

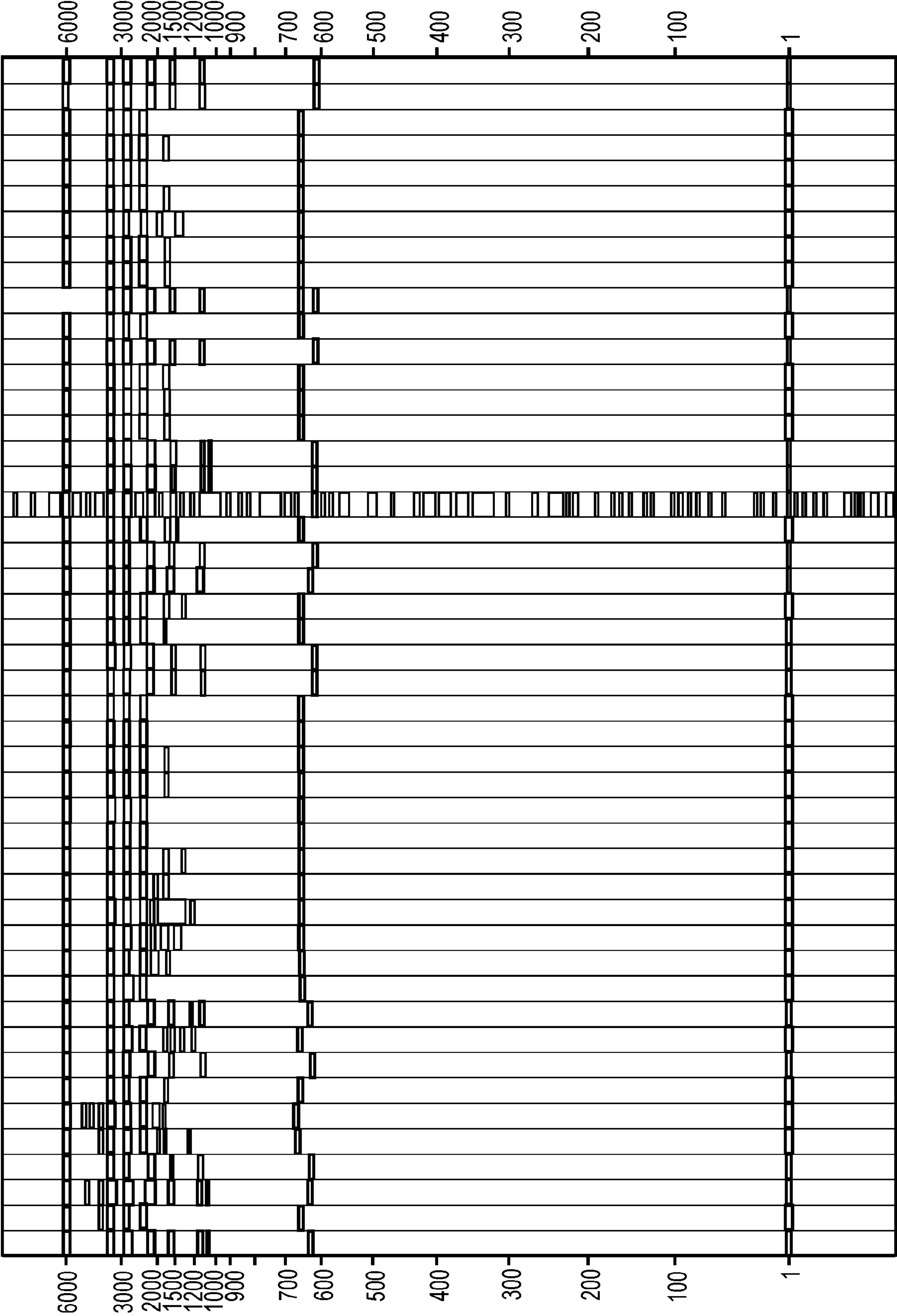


FIG. 7C

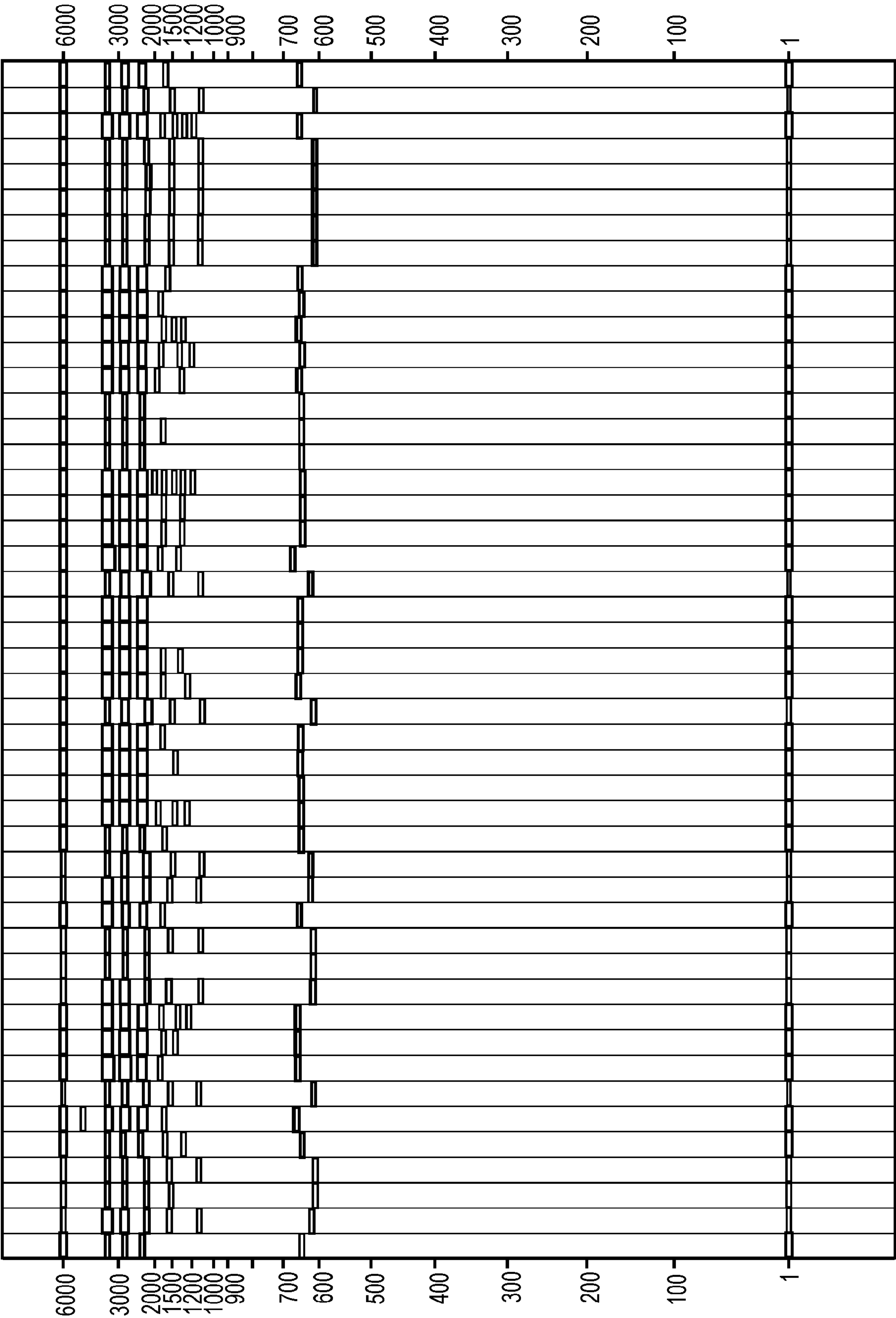


FIG. 7D

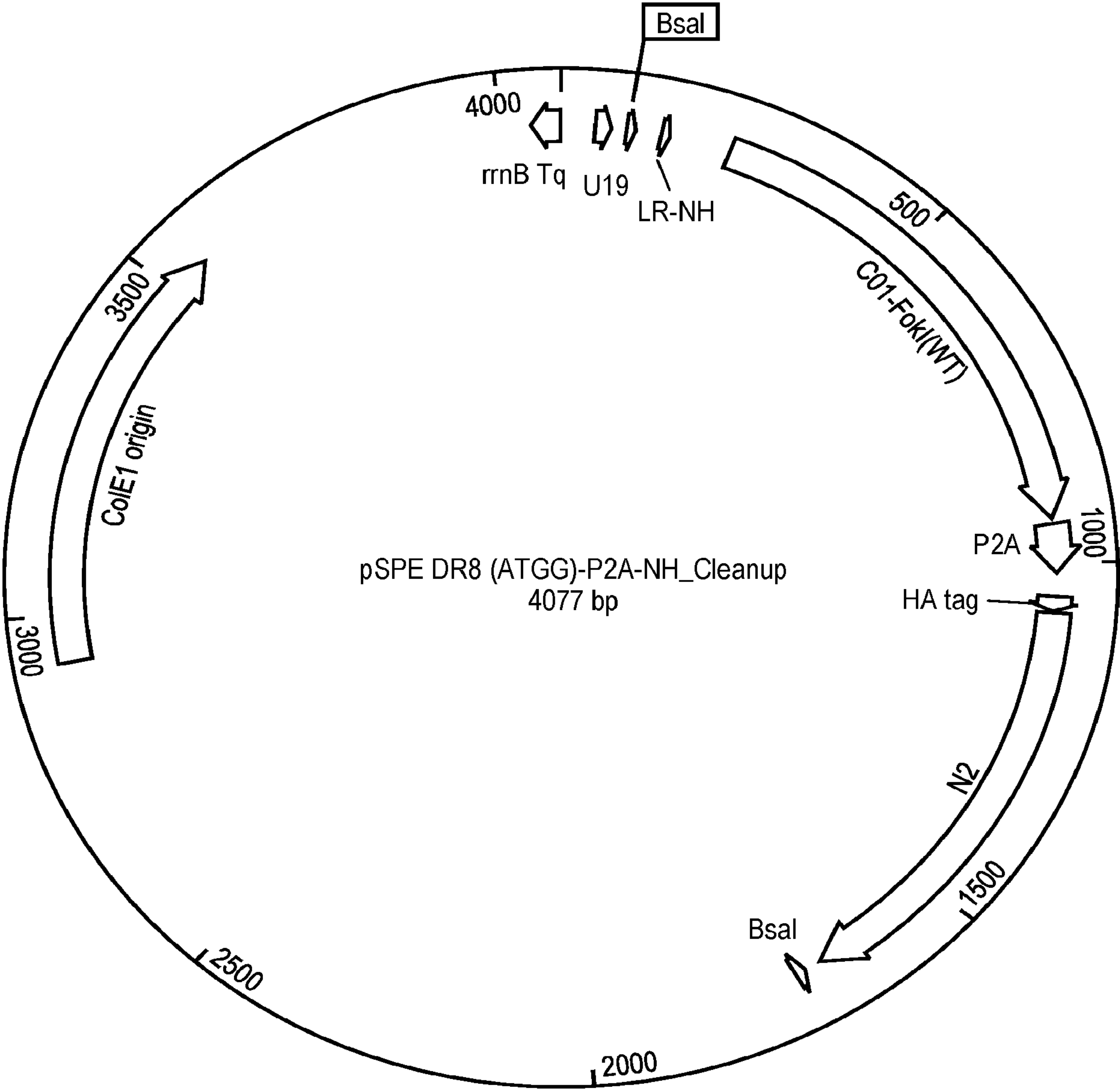


FIG. 8A

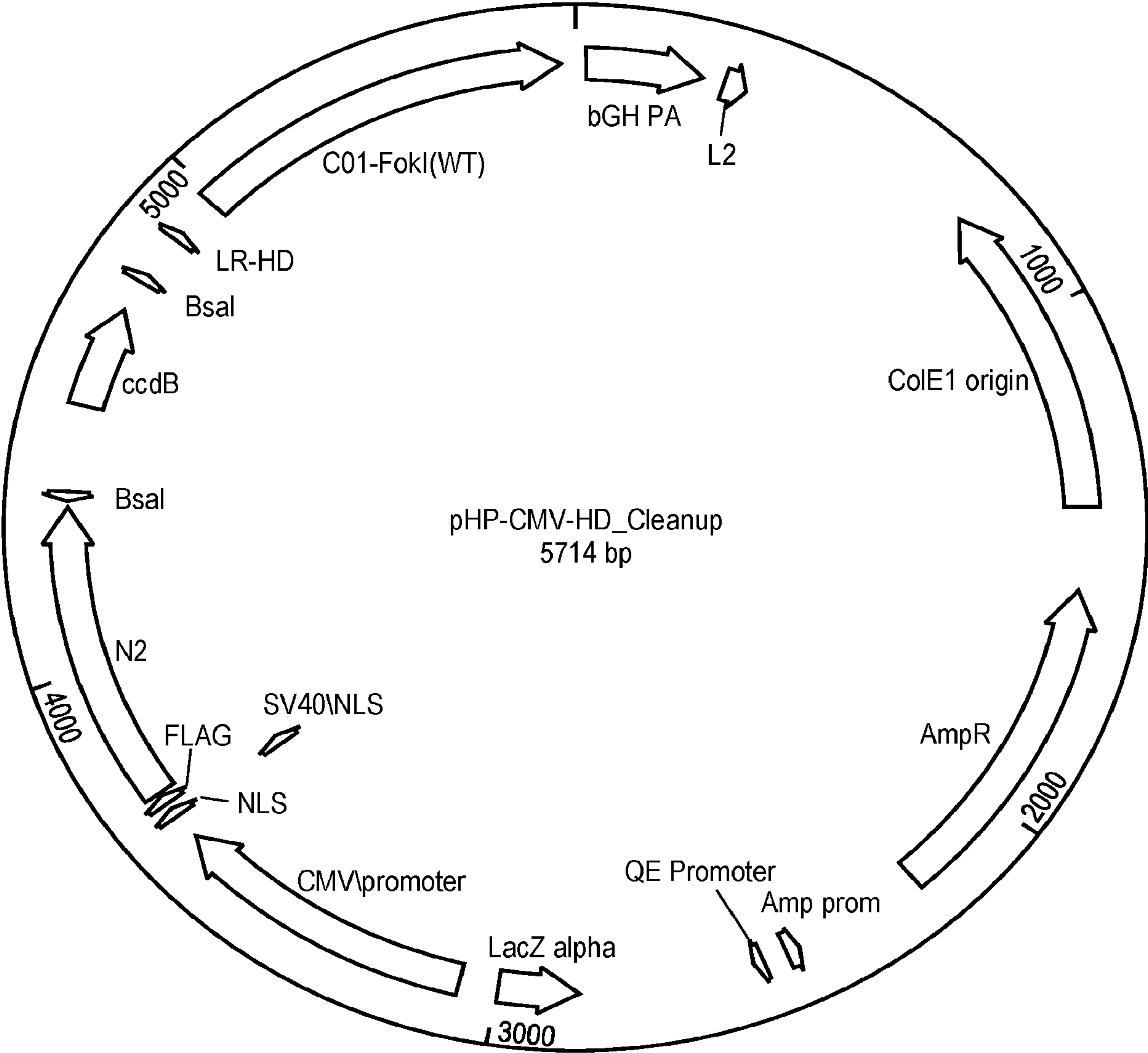


FIG. 8B

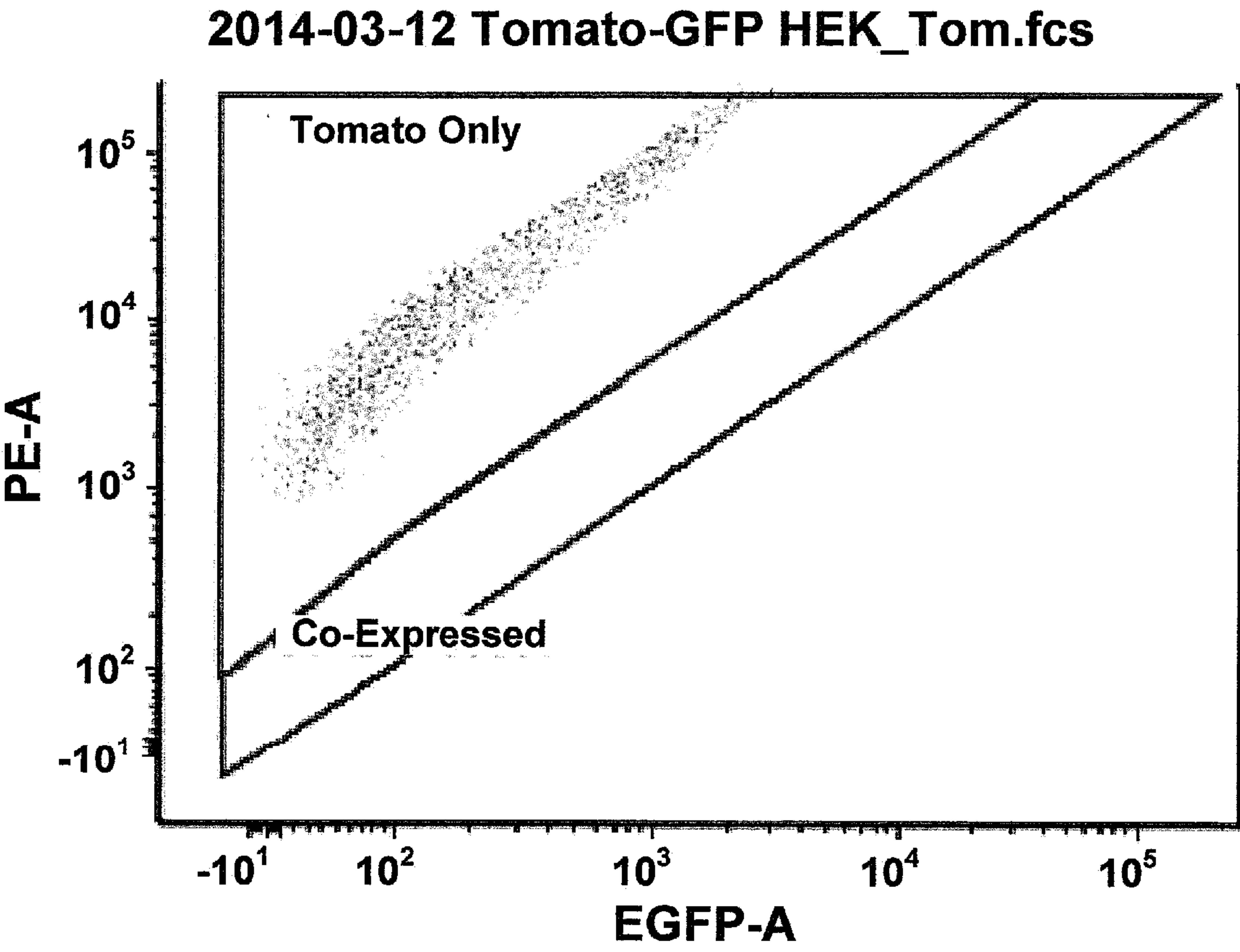


FIG. 9A

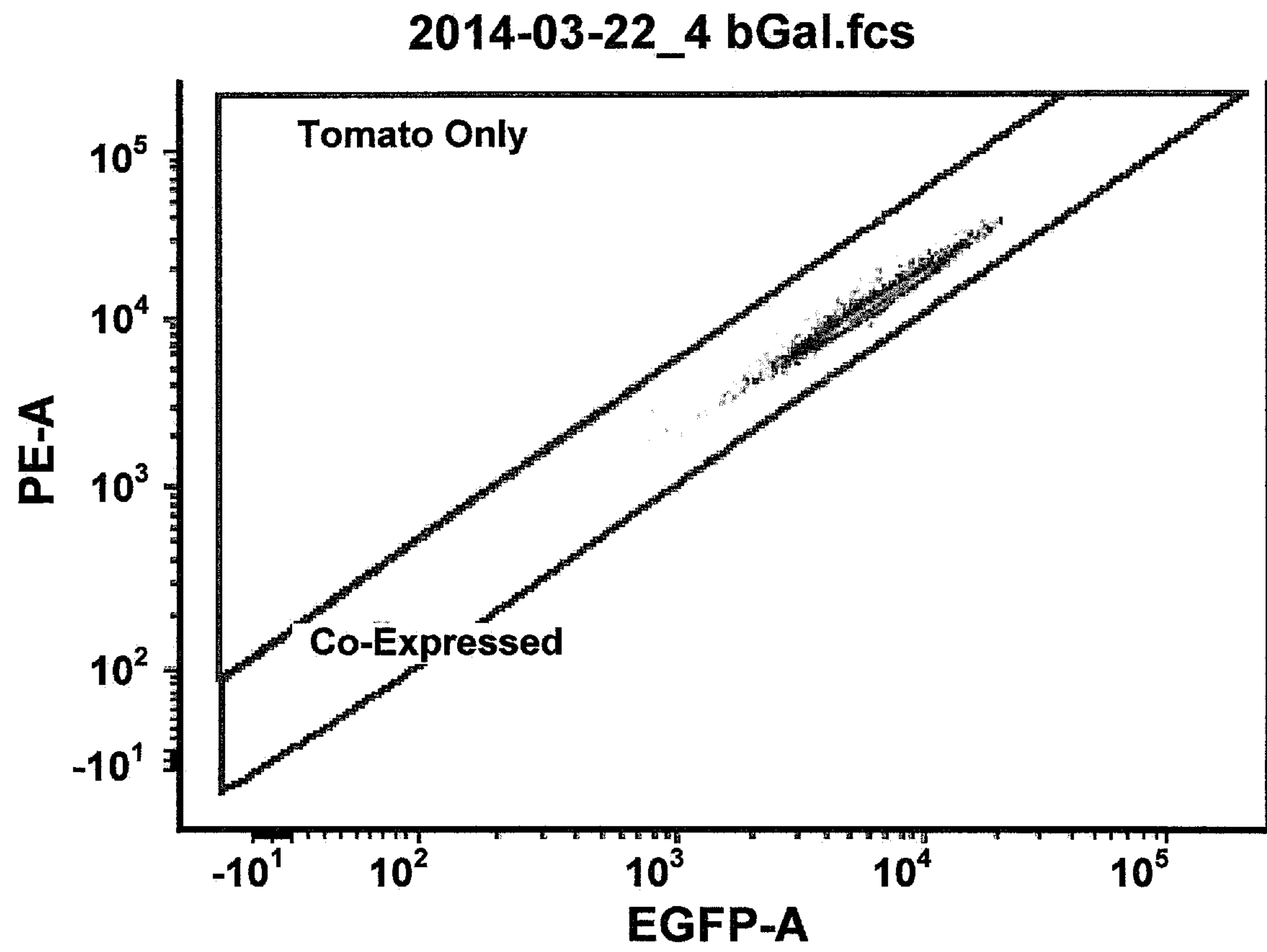


FIG. 9B

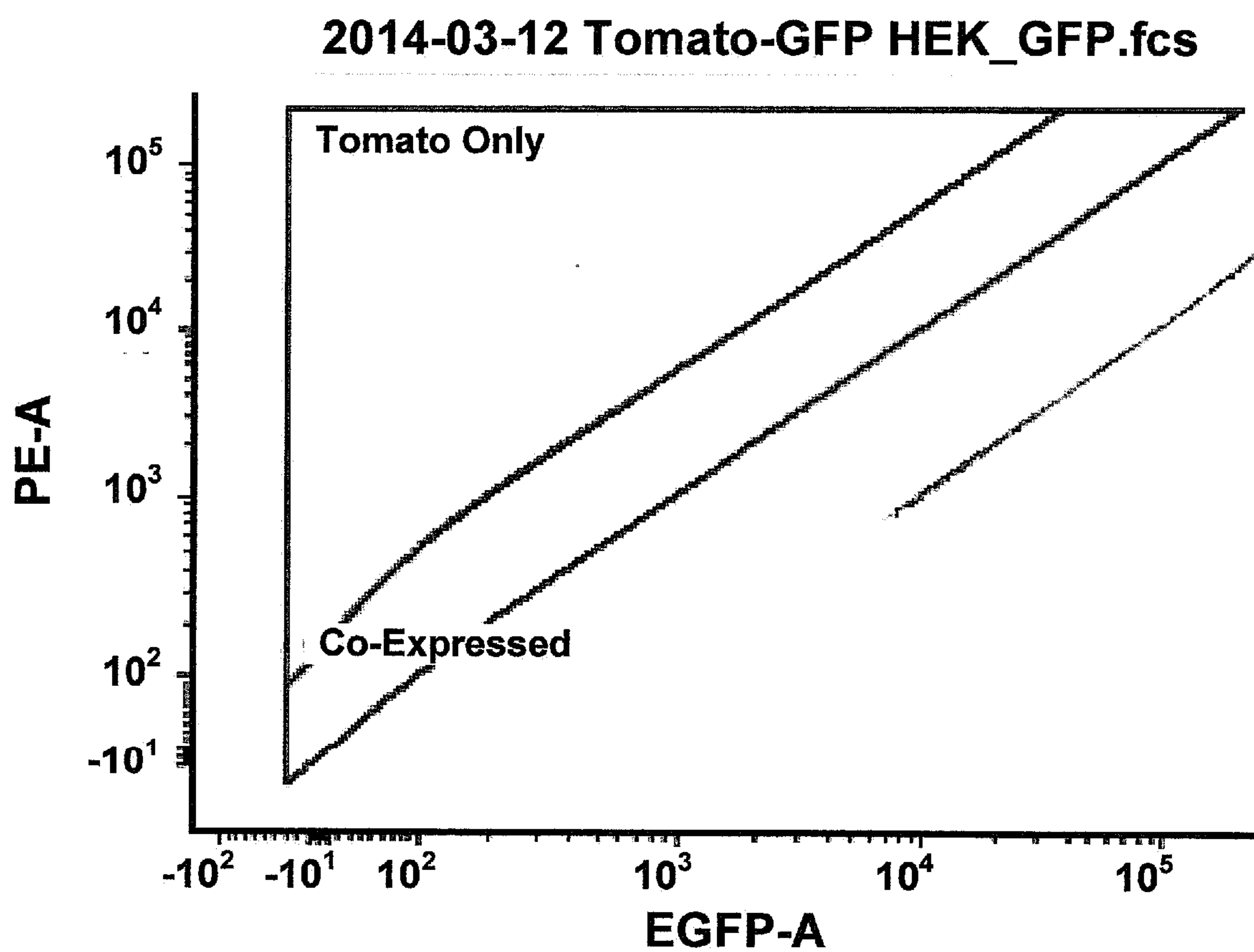


FIG. 9C

SUBSTITUTE SHEET (RULE 26)

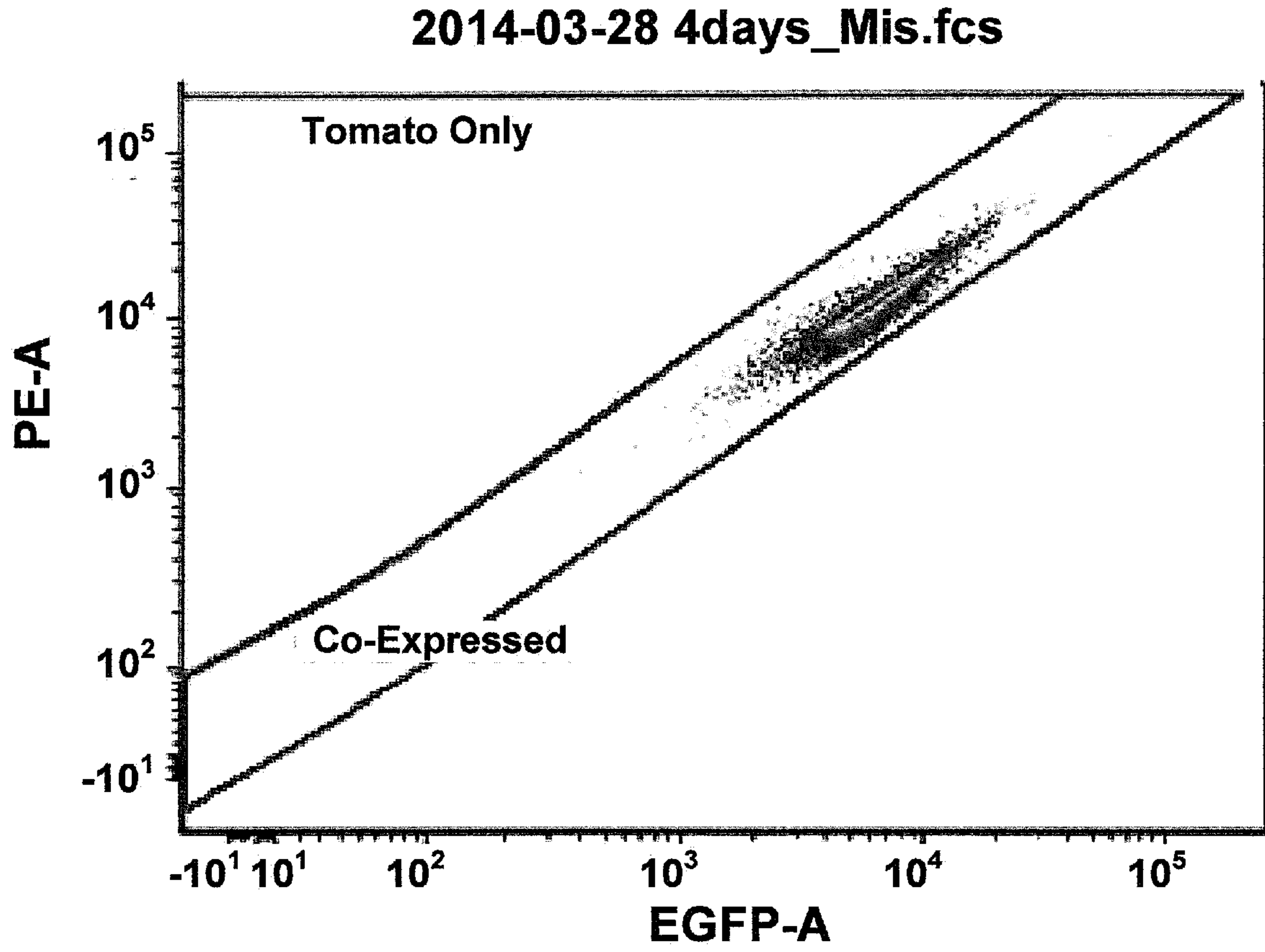


FIG. 9D

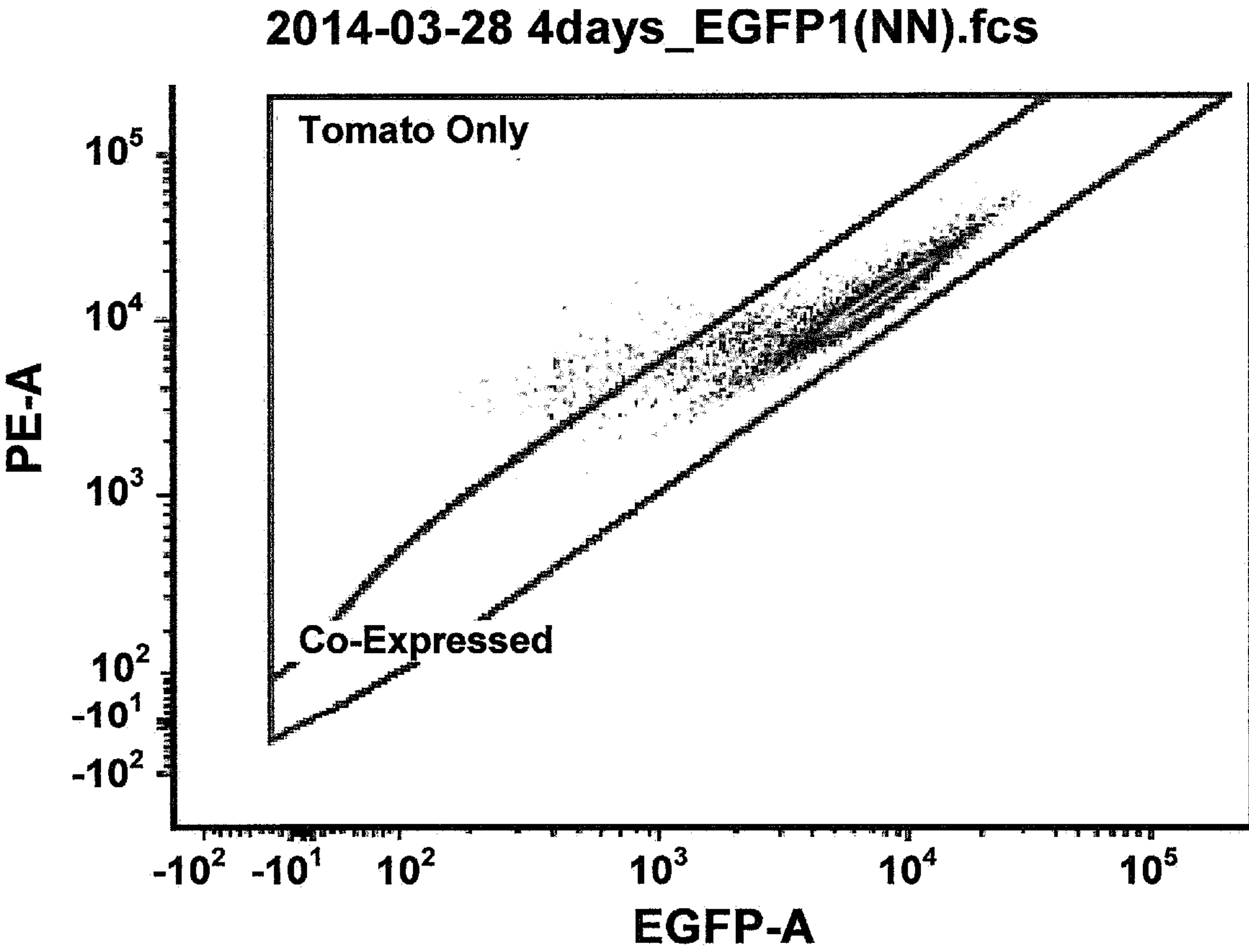


FIG. 9E

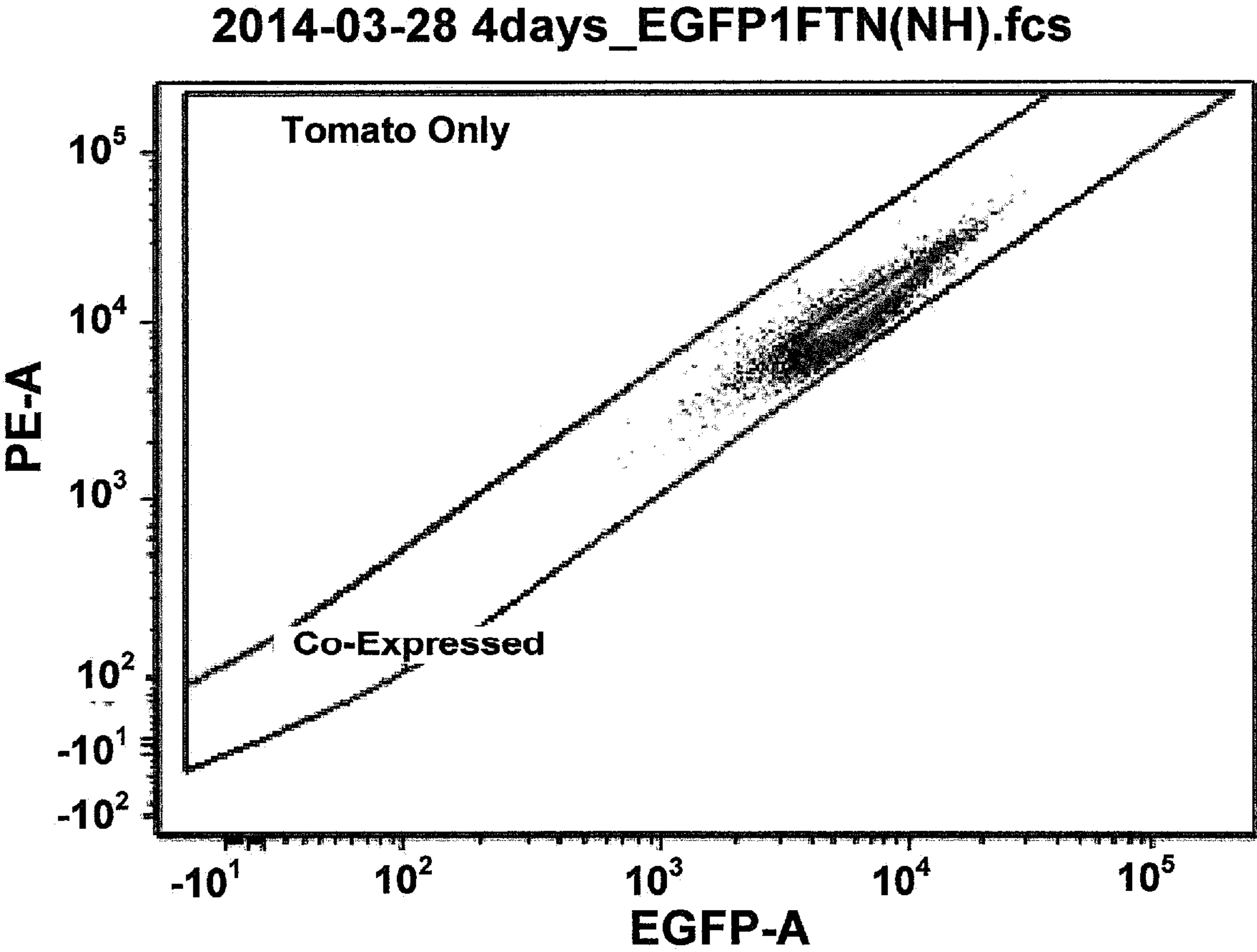


FIG. 9F

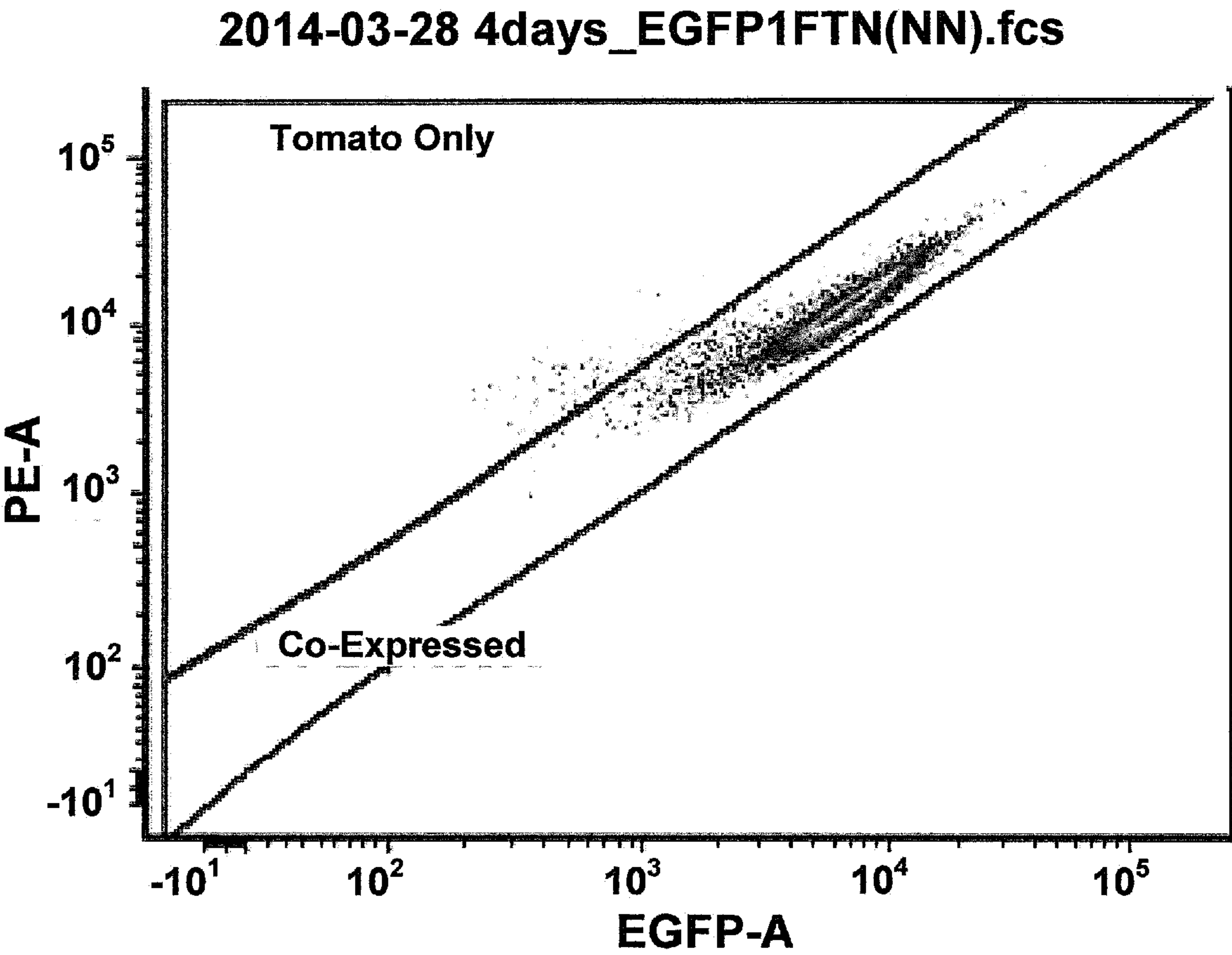


FIG. 9G

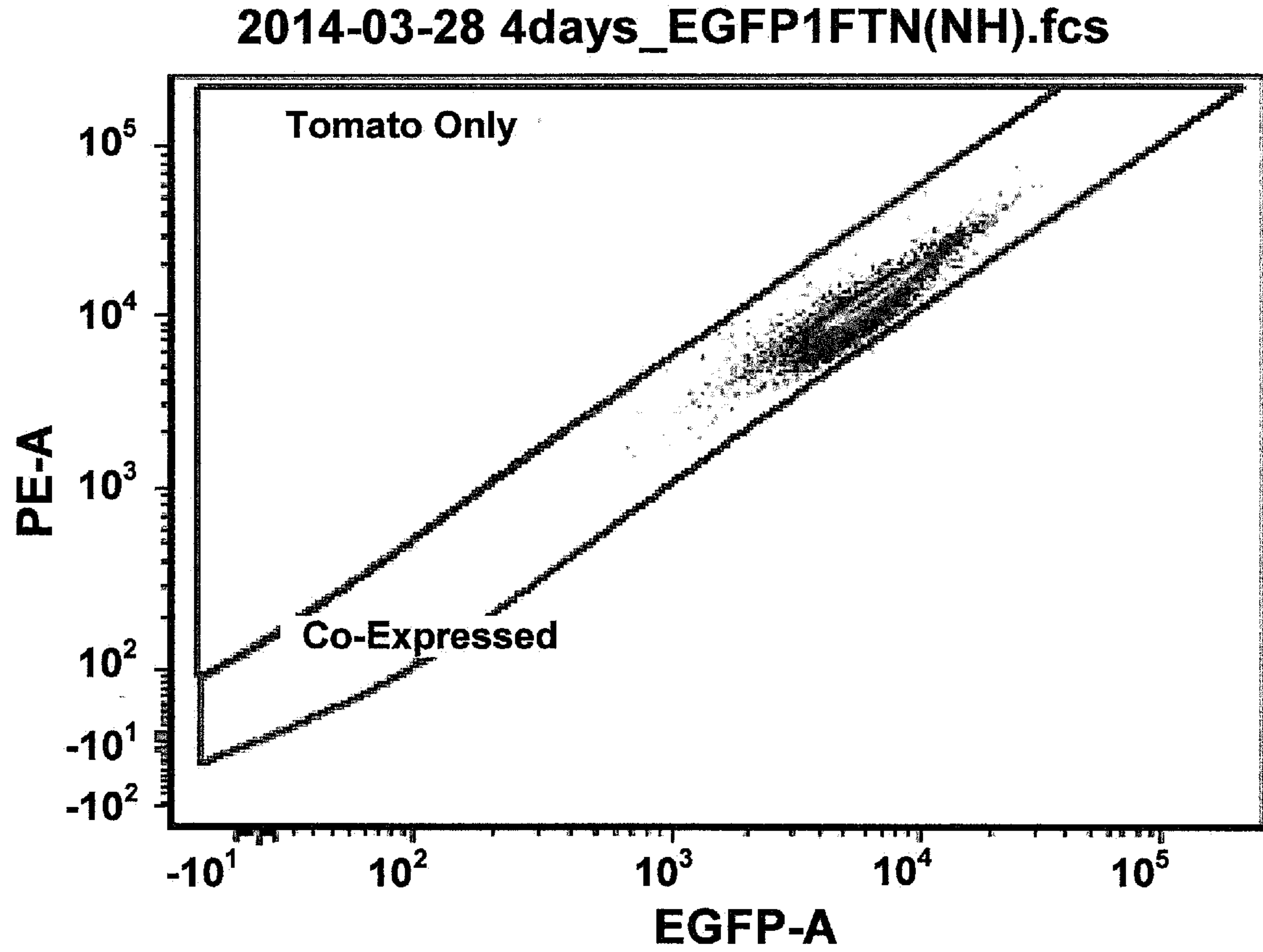


FIG. 9H

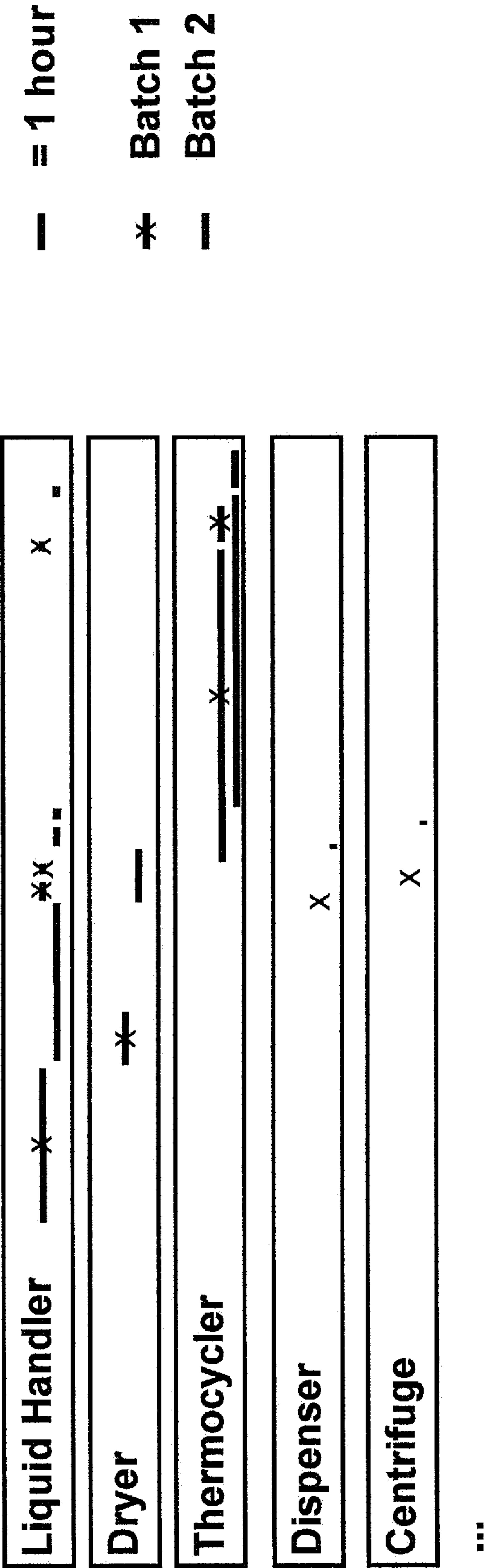


FIG. 10

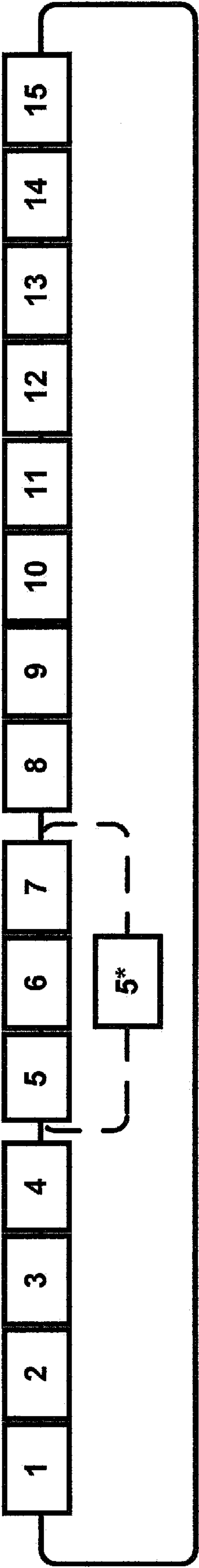


FIG. 11A

1-4, Optional 5*, 9-15	AA	AT	AD	AC	TA	TT	ID	TC
	DA	DT	DD	DC	CA	CT	CD	CC
	A	T	G	C	D			
	GA	GT	GG	GC	AG	TG	CG	
5-7								
	AA	AT	AD	AC	TA	TT	ID	TC
	DA	DT	DD	DC	CA	CT	CD	CC
	AG	TG	GG	CG	GA	GT	GC	
8								
	AA	AT	AD	AC	TA	TT	ID	TC
	DA	DT	DD	DC	CA	CT	CD	CC
	A	T	G	C	D			
Receiver	GA	GT	GG	GC	AG	TG	CG	
	A-P2A-CMV		T-P2A-CMV		G-P2A-CMV		C-P2A-CMV	
	CMV-A		CMV-T		CMV-G		CMV-C	

FIG. 11B

Target Gene	No. Exp	No. Syn	Cleavage Activity	Sequence Alignment*
ASCL1	1	1	-	Yes
ATOH7	2	7	+	
ELF1	3	13	+	
ELK3	4	17	+	
FOXB1	5	33	+	
FOXD4L1	6	41	+	
FOXF2	7	45	+	
FOXP4	8	66	+	
GATA1	9	70	-	Yes
GATA4	10	73	-	Yes
HES5	11	82	-	Yes
HOXA10	12	92	-	
HOXD1	13	121	+	Yes
HOXD10	14	122	+	
KLF9	15	153	+	
LMX1A	16	162	+	
MYF6	17	178	-	Yes
NEUROG1	18	185	-	Yes
DHS_37_1 FTN	19	189	+	
DHS_37_2 FTN	20	190	+	
HPRT2 FTN	21	191	+	
HPRT1 FTN	22	192	+	

FIG. 12

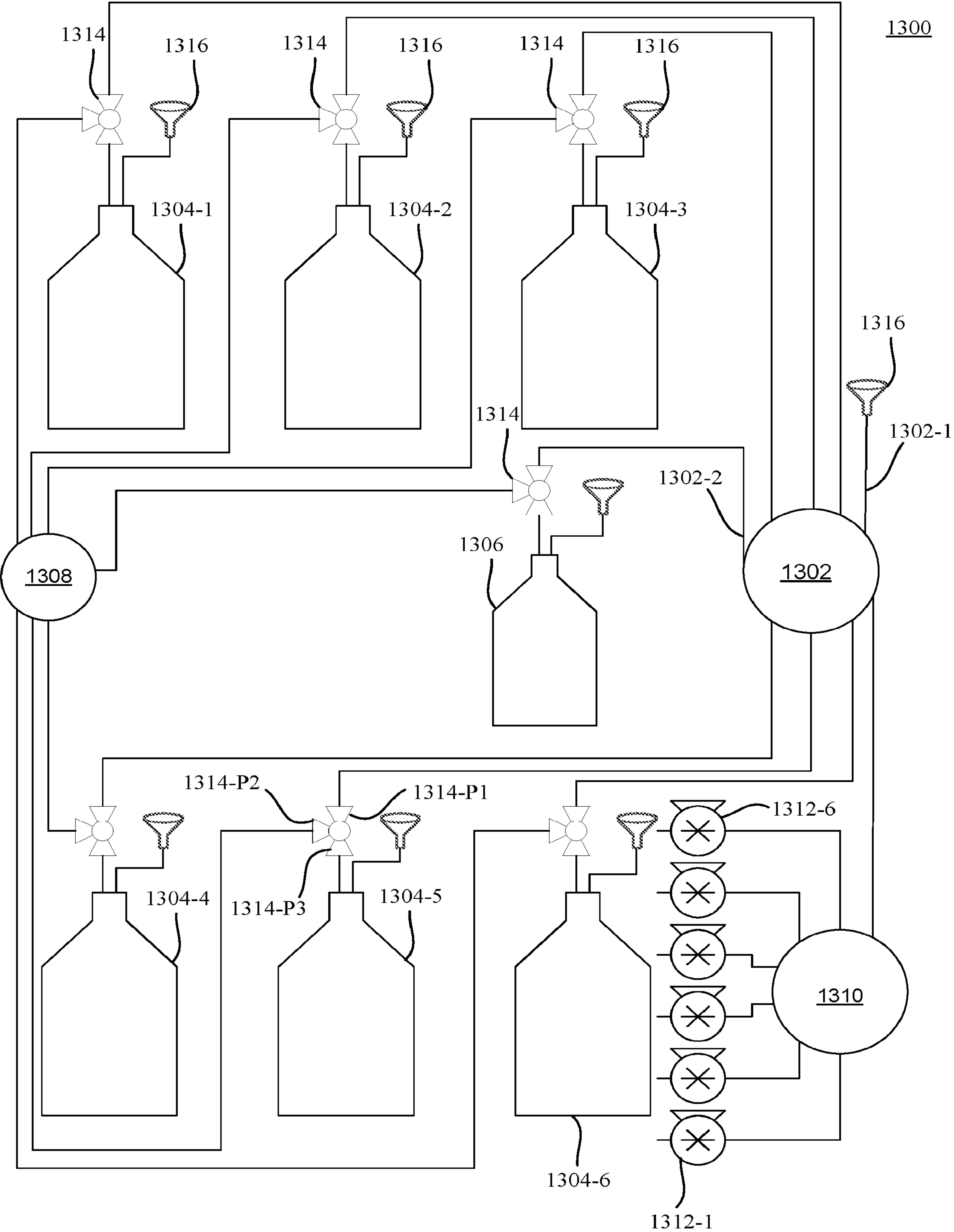


FIG. 13

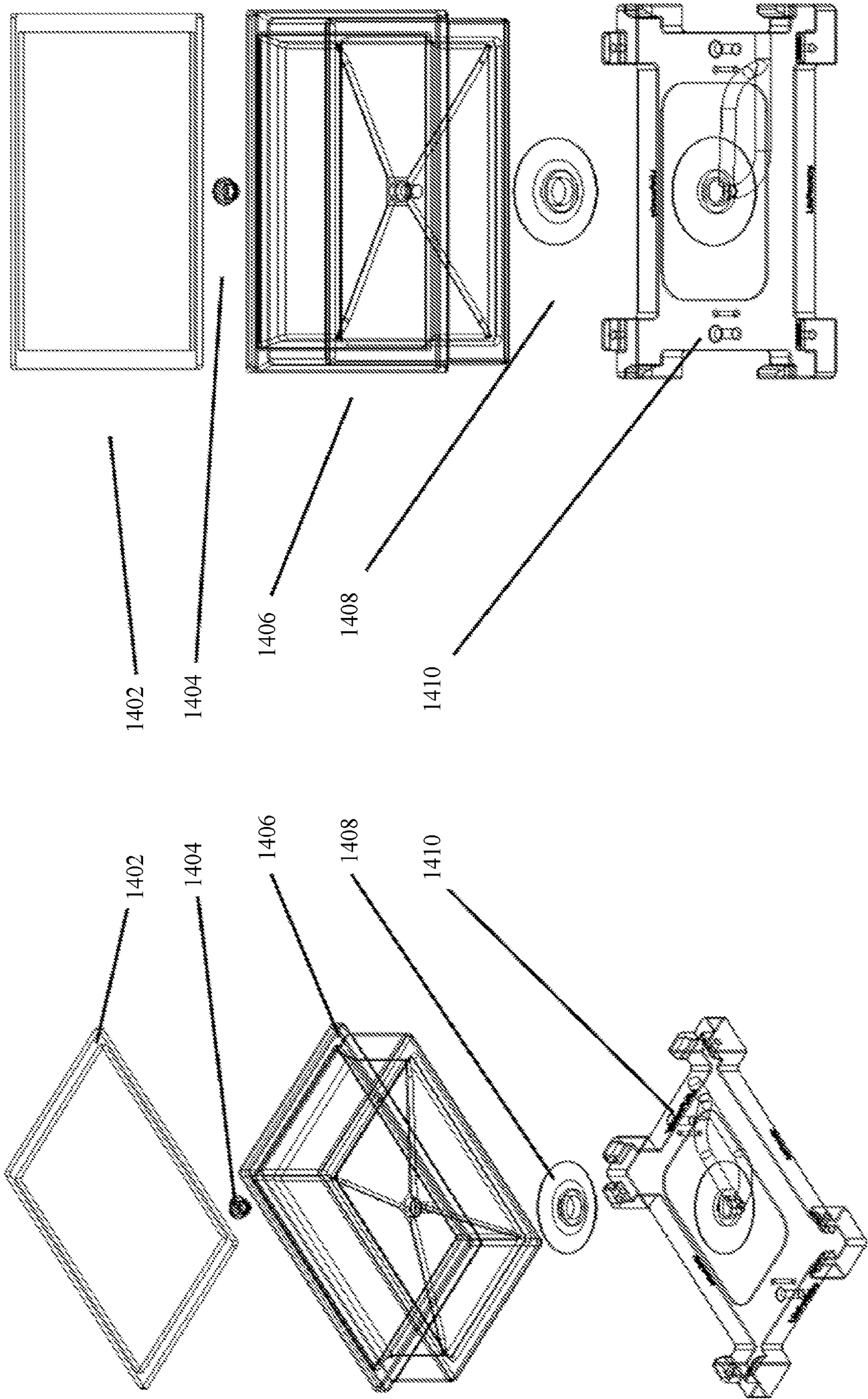


FIG. 14A

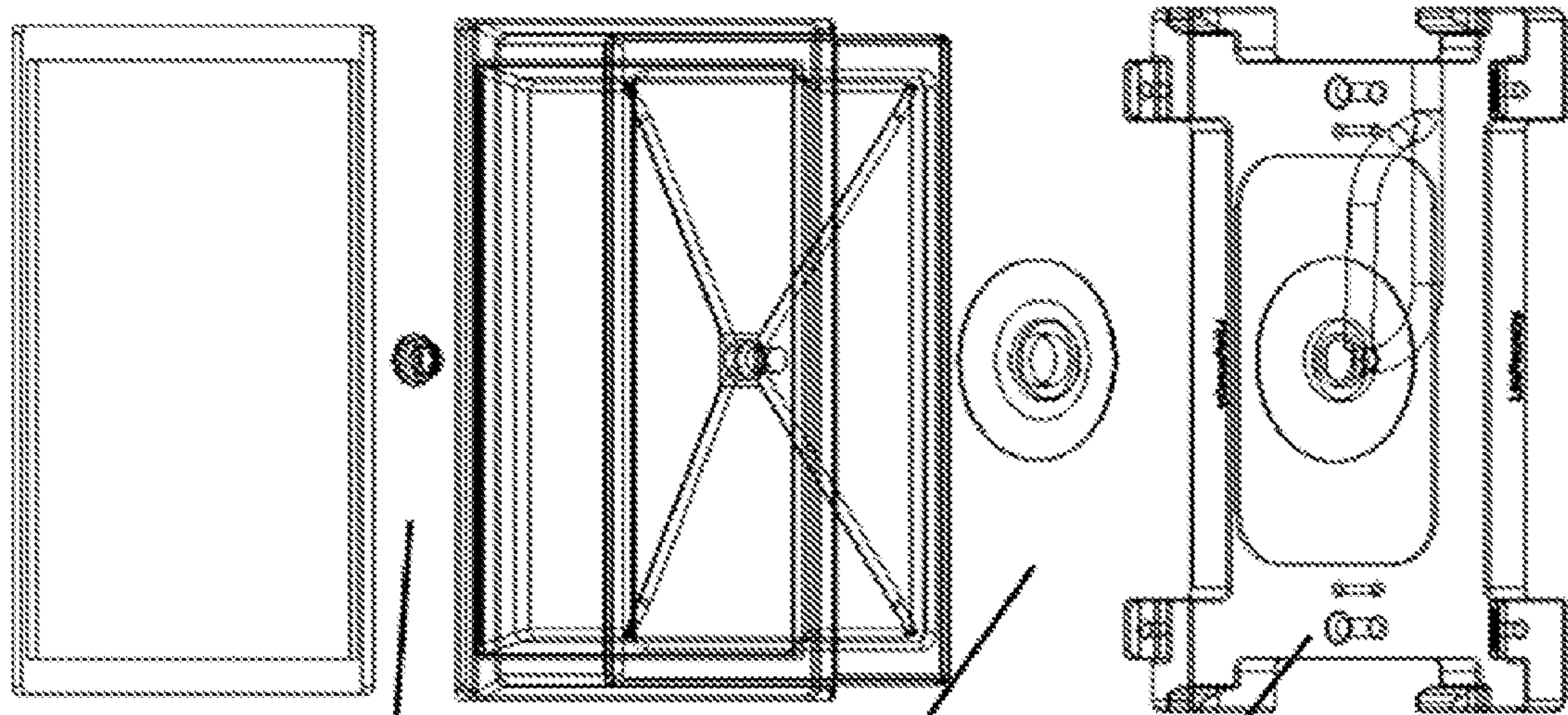


FIG. 14B

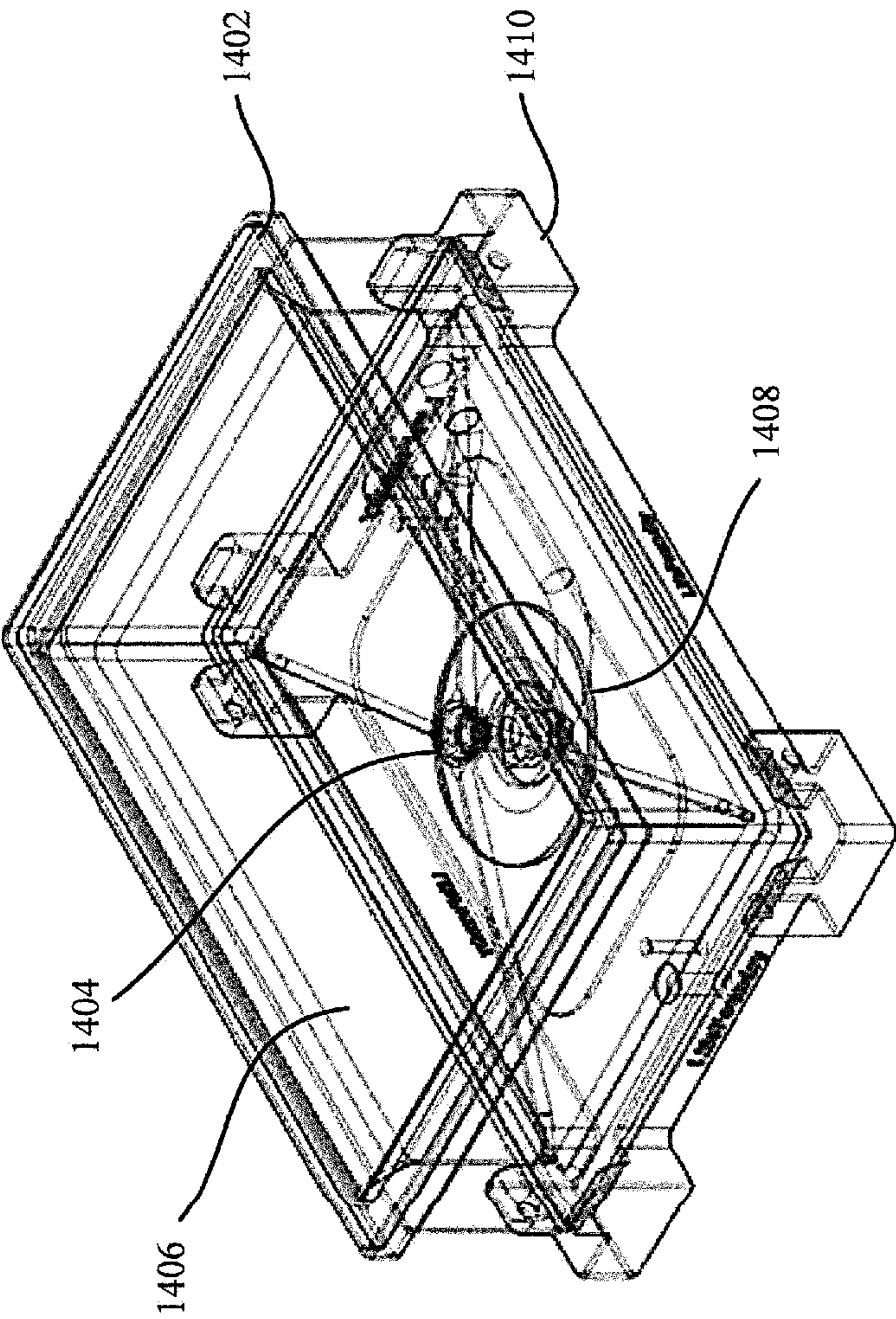


FIG. 14C

1400

1500

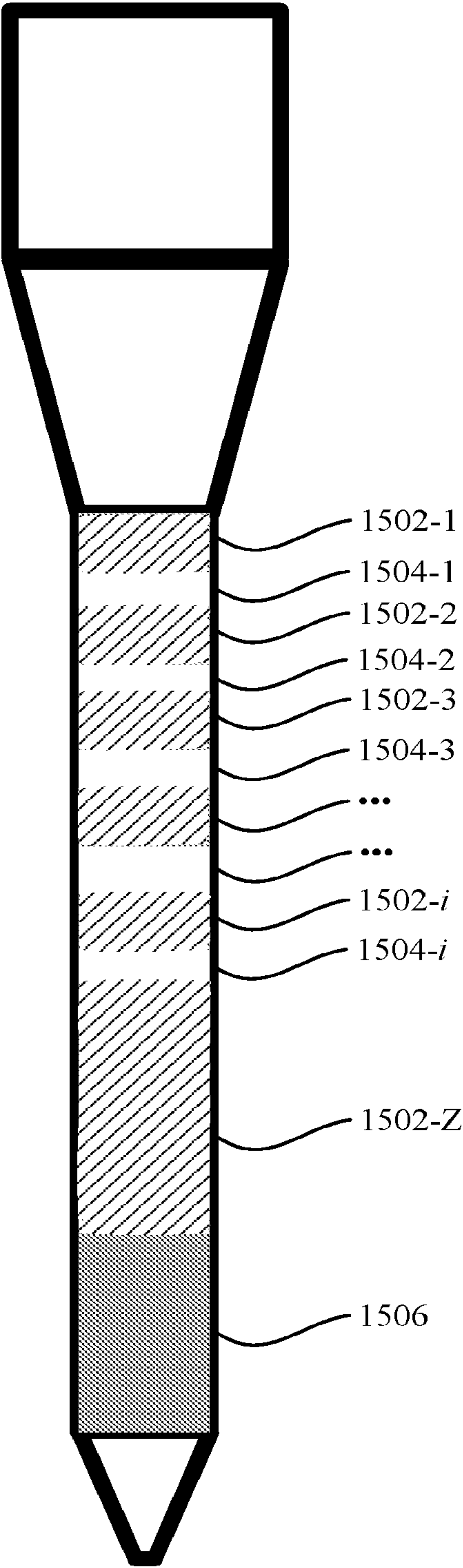


FIG. 15

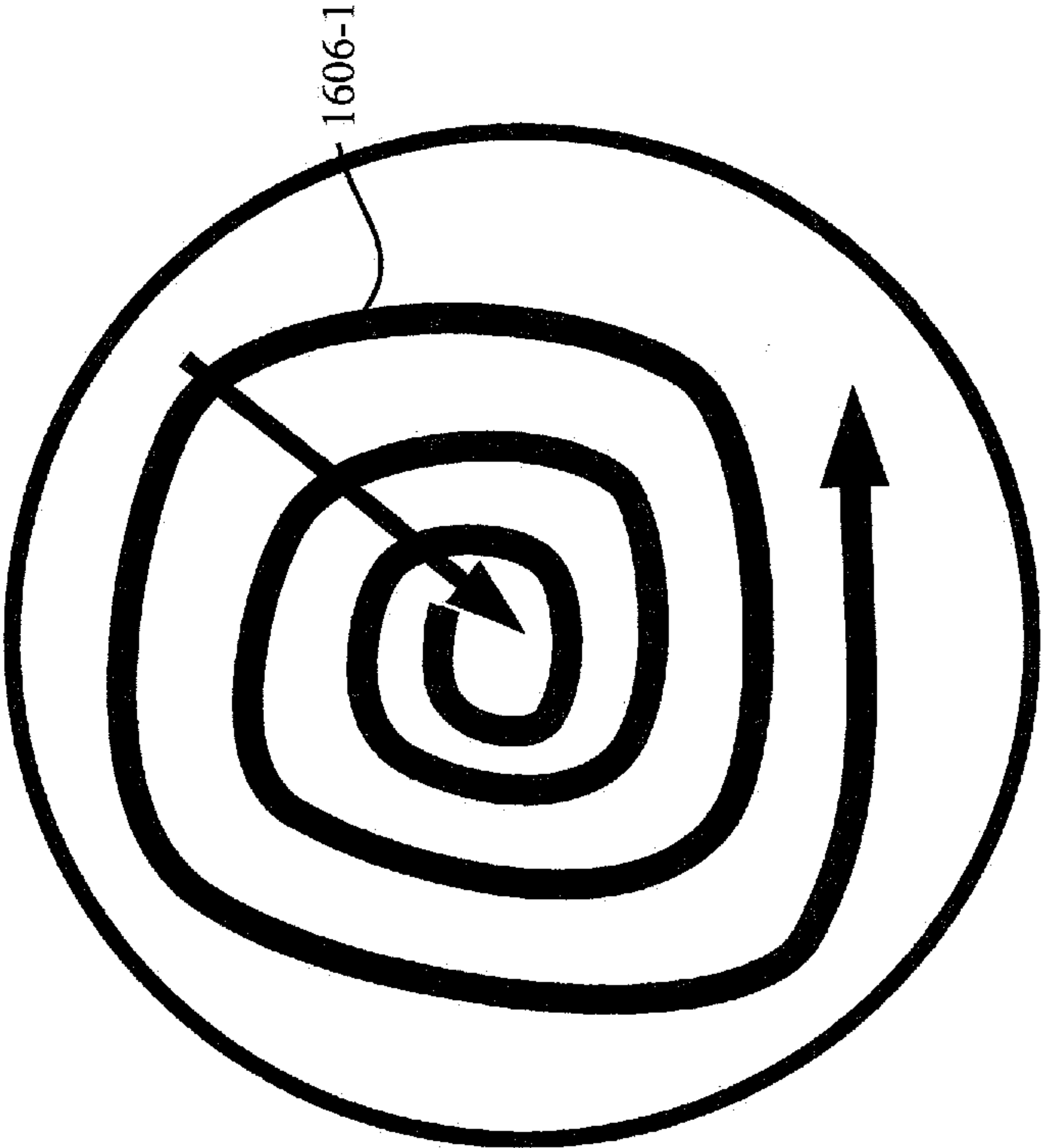


FIG. 16B

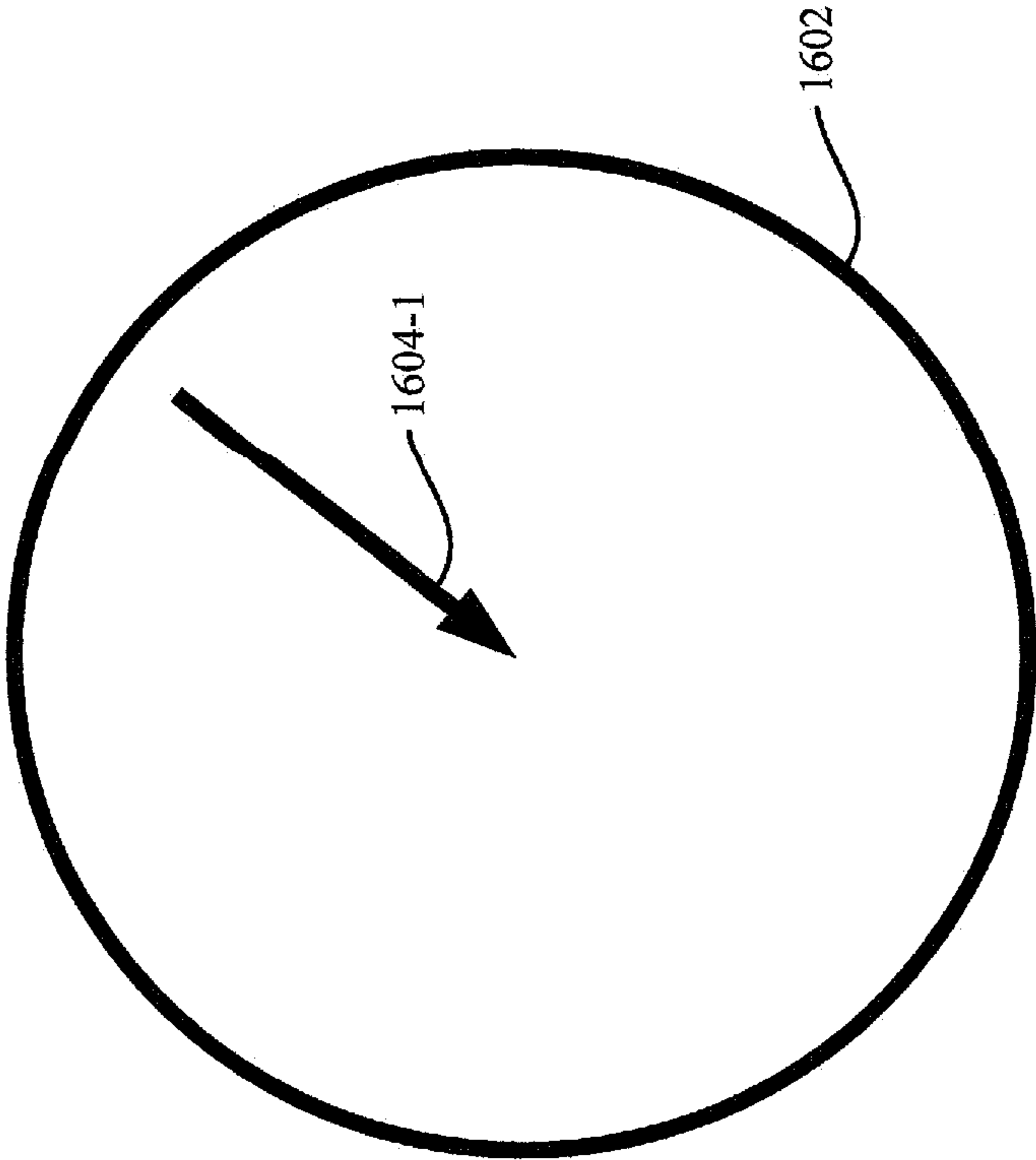


FIG. 16A

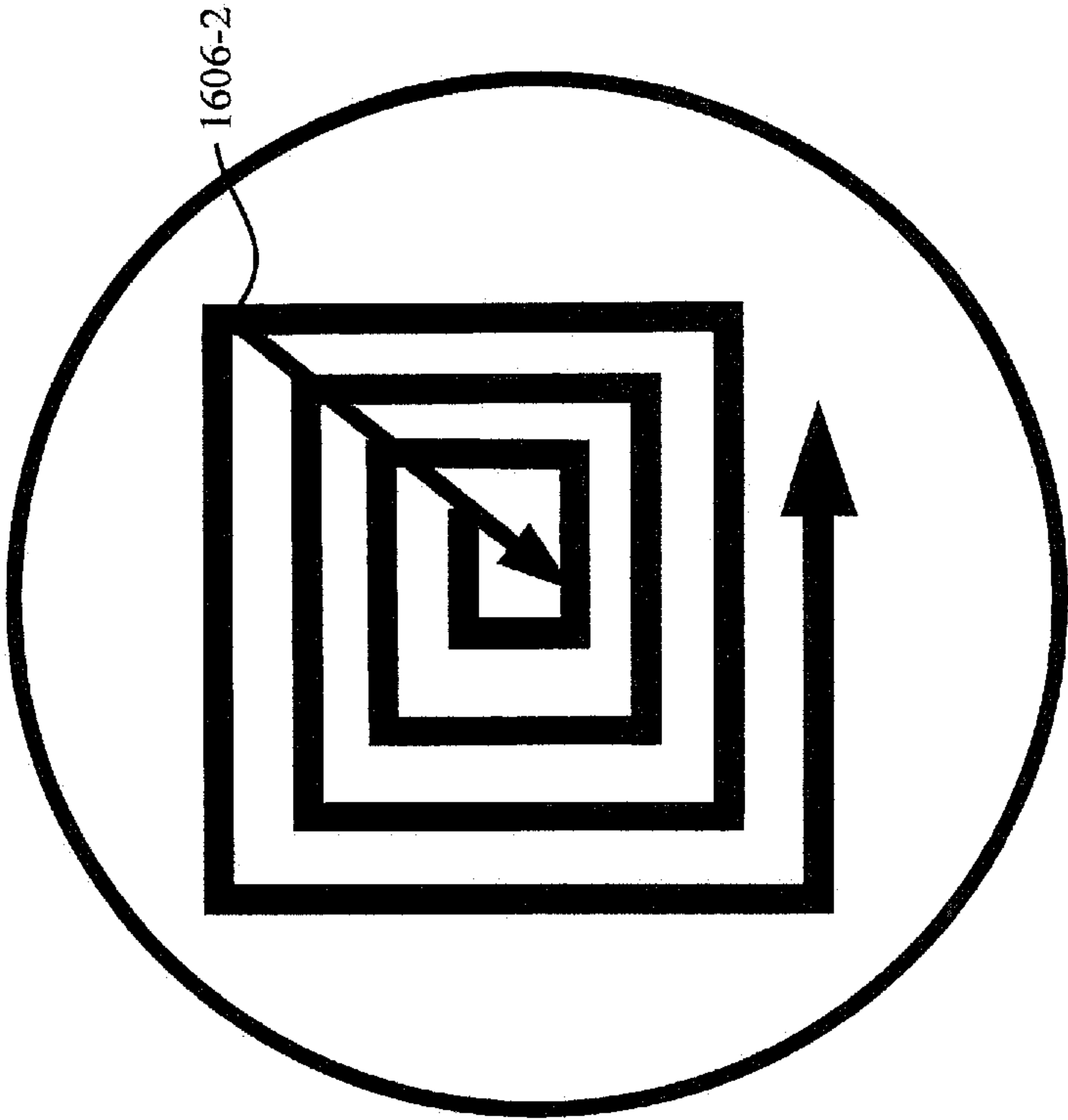


FIG. 16D

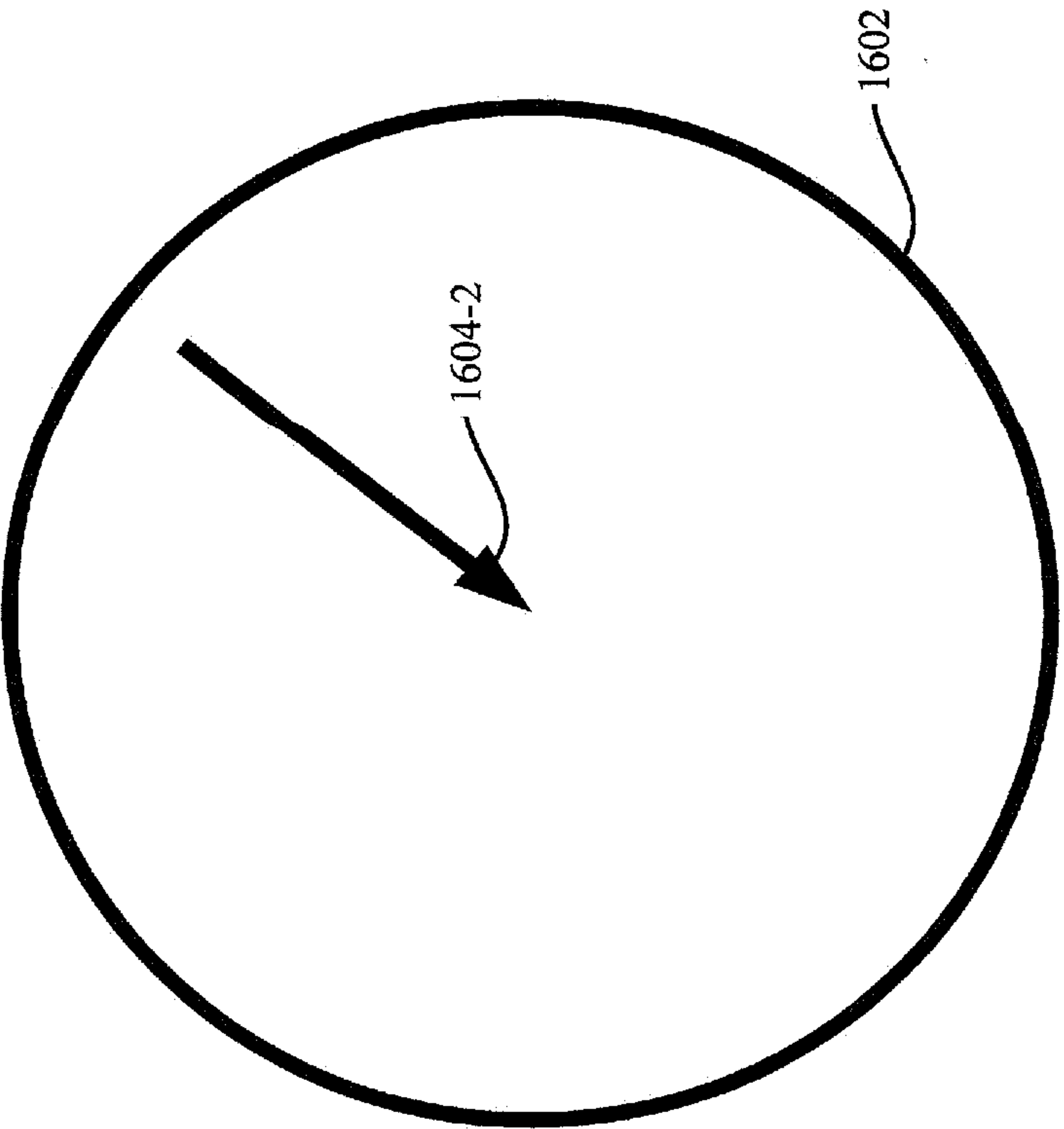


FIG. 16C

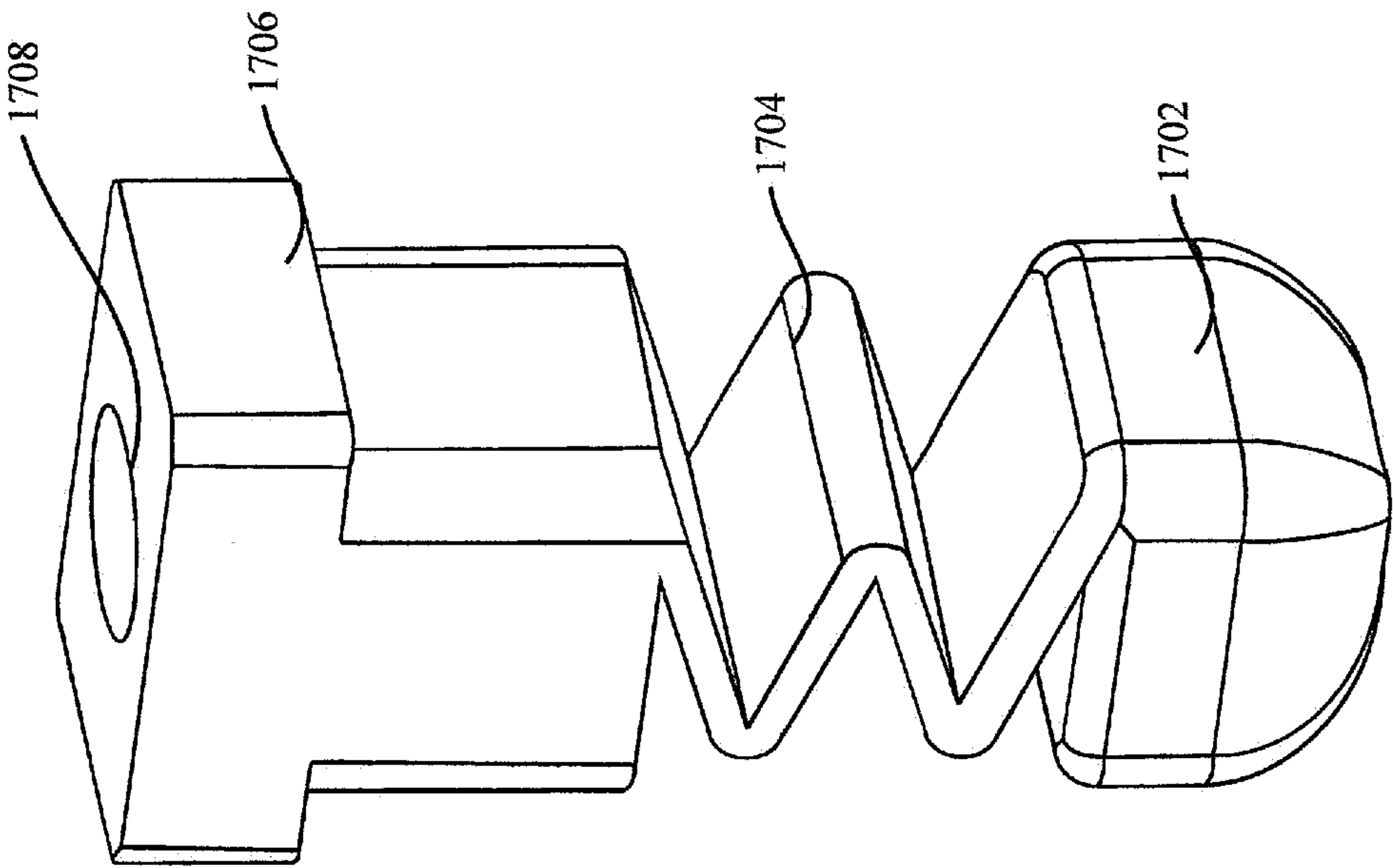


FIG. 17B

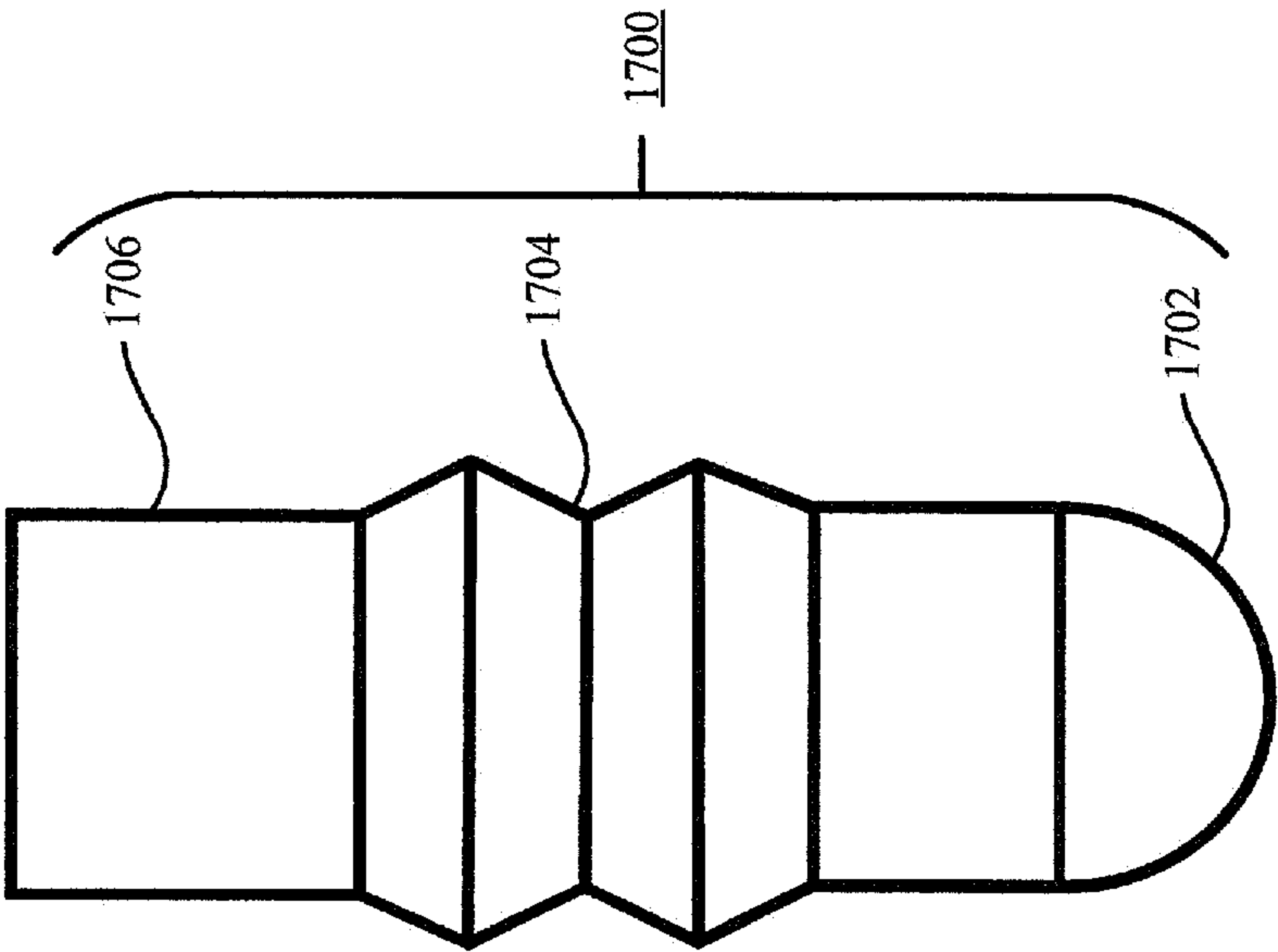


FIG. 17A

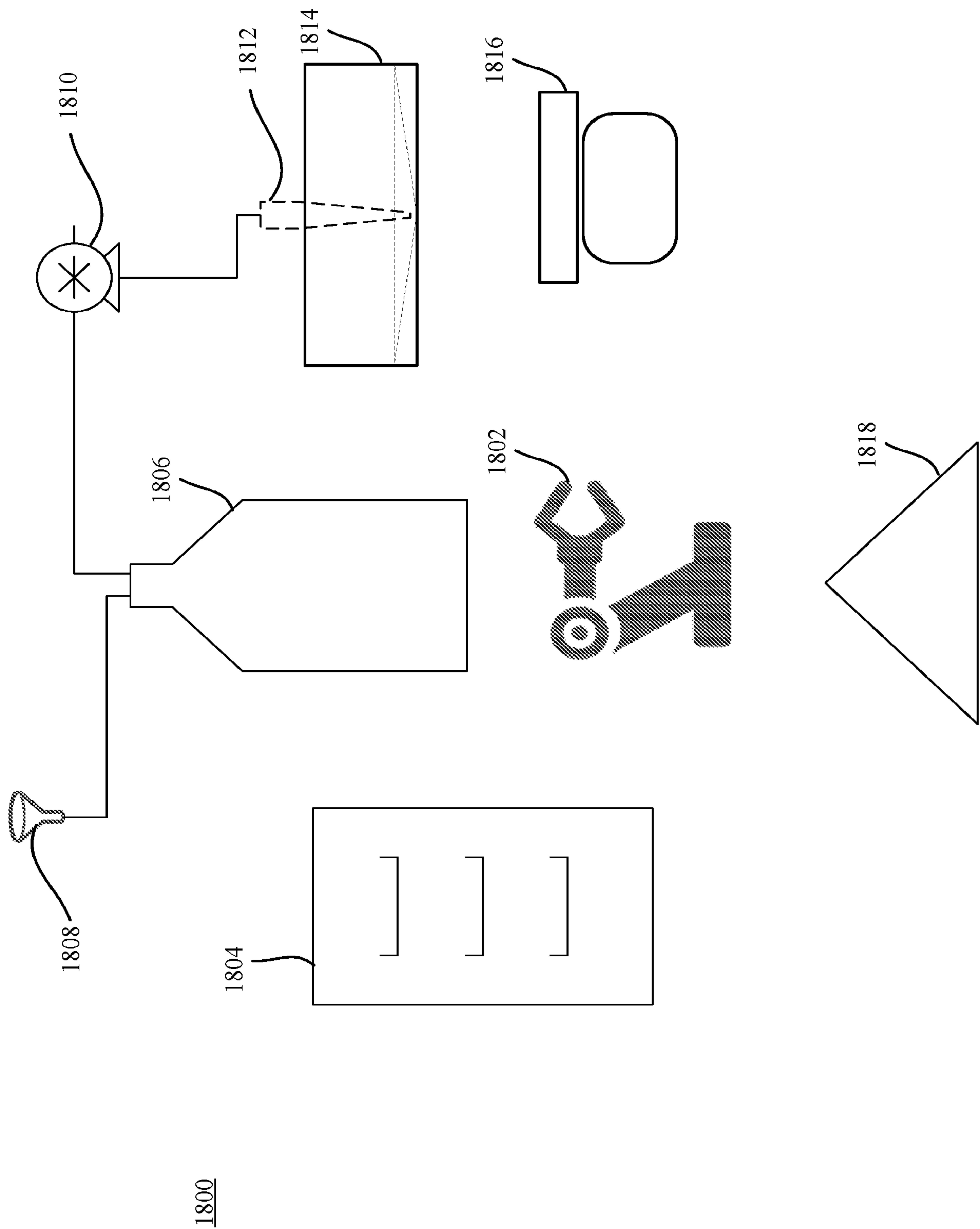


FIG. 18

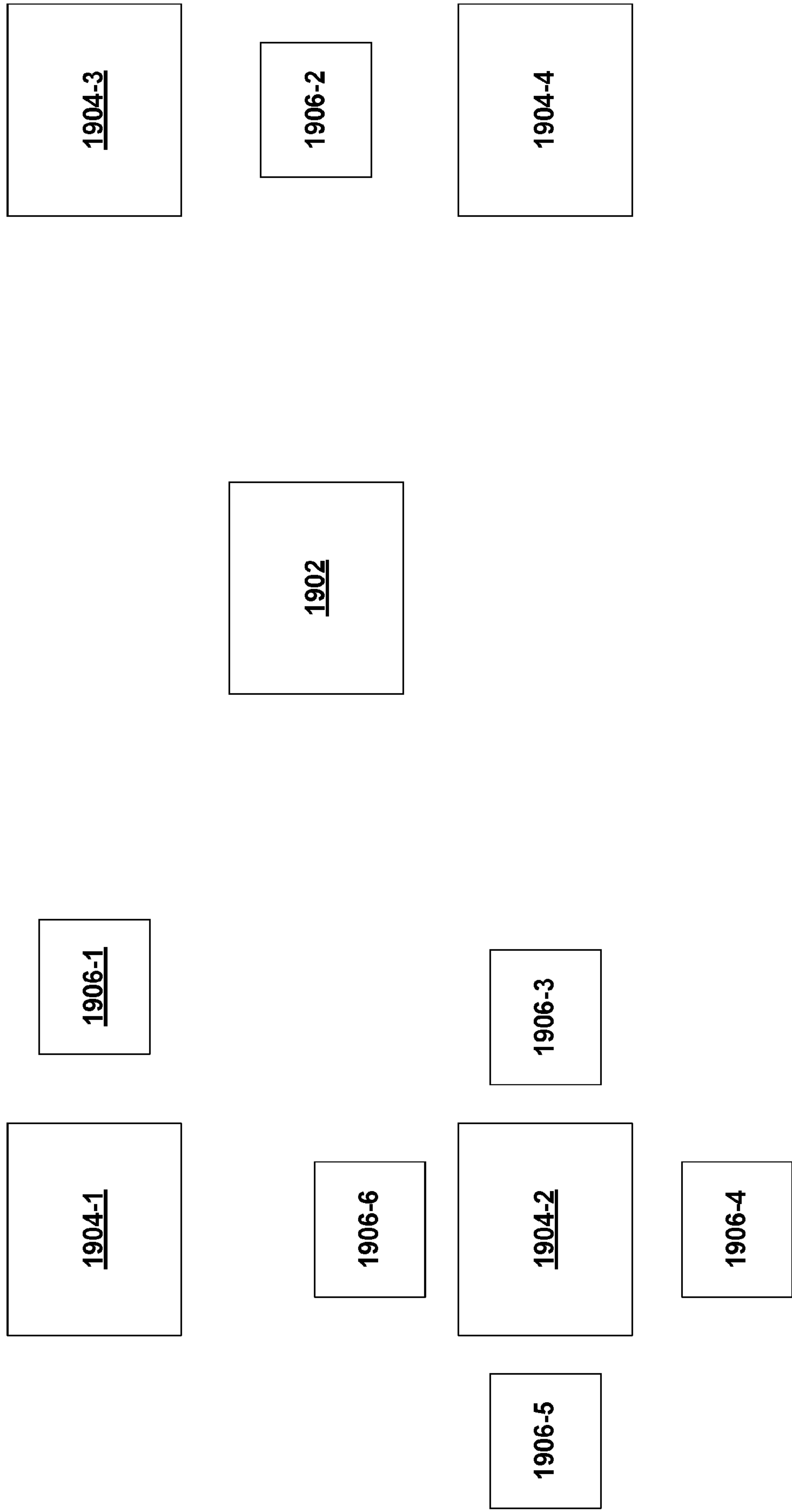


FIG. 19