

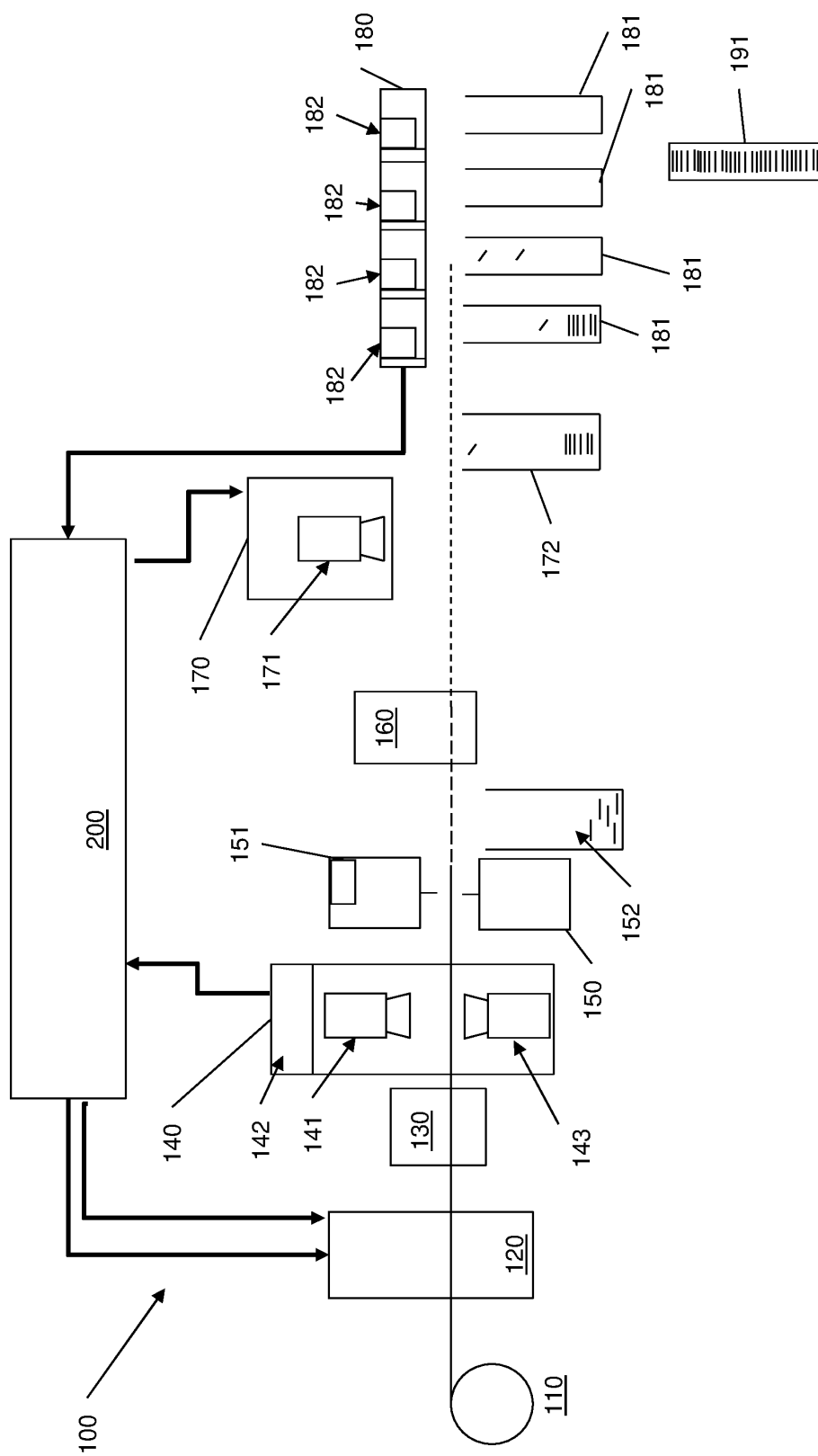


Fig. 1

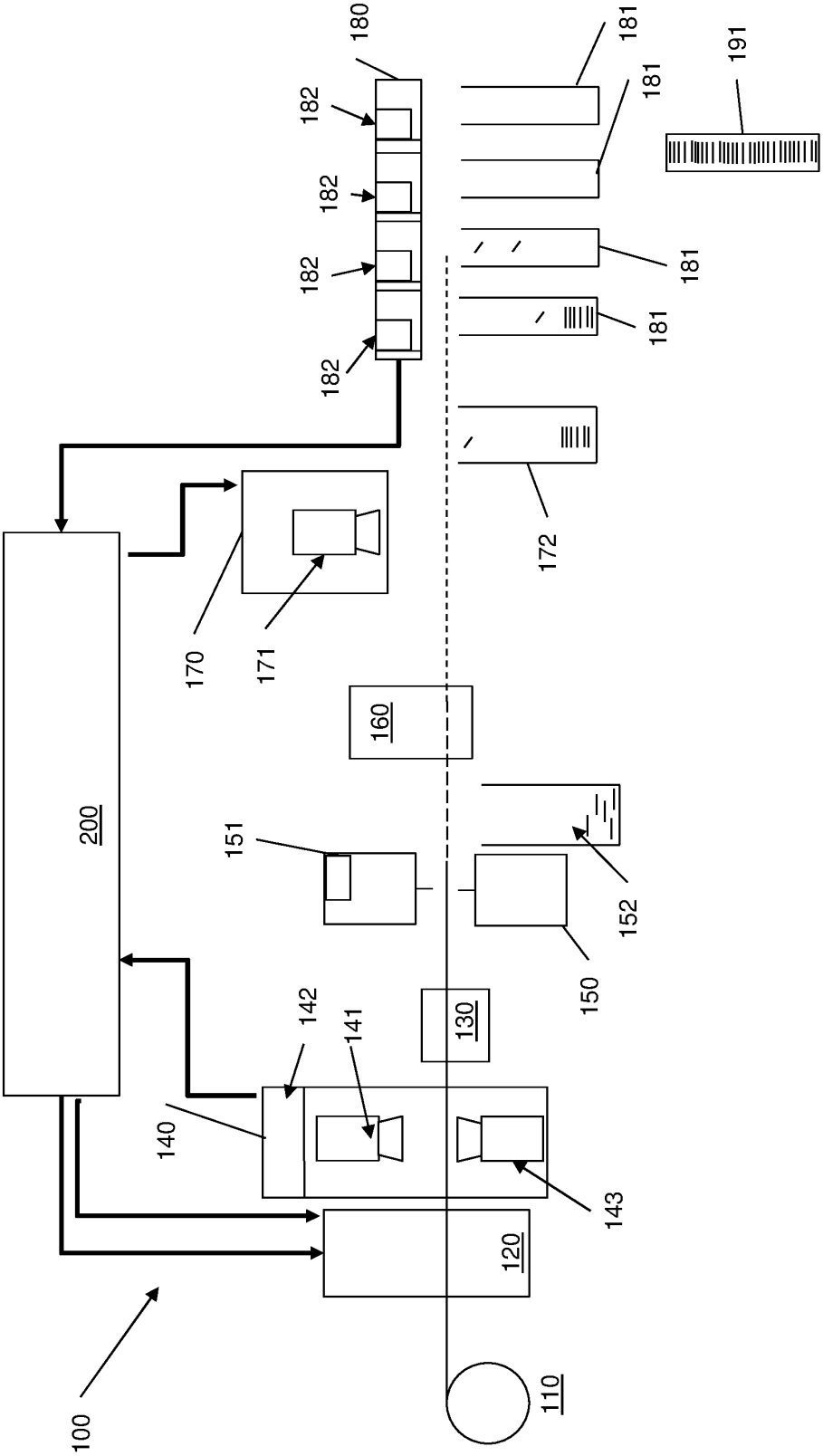


Fig. 2

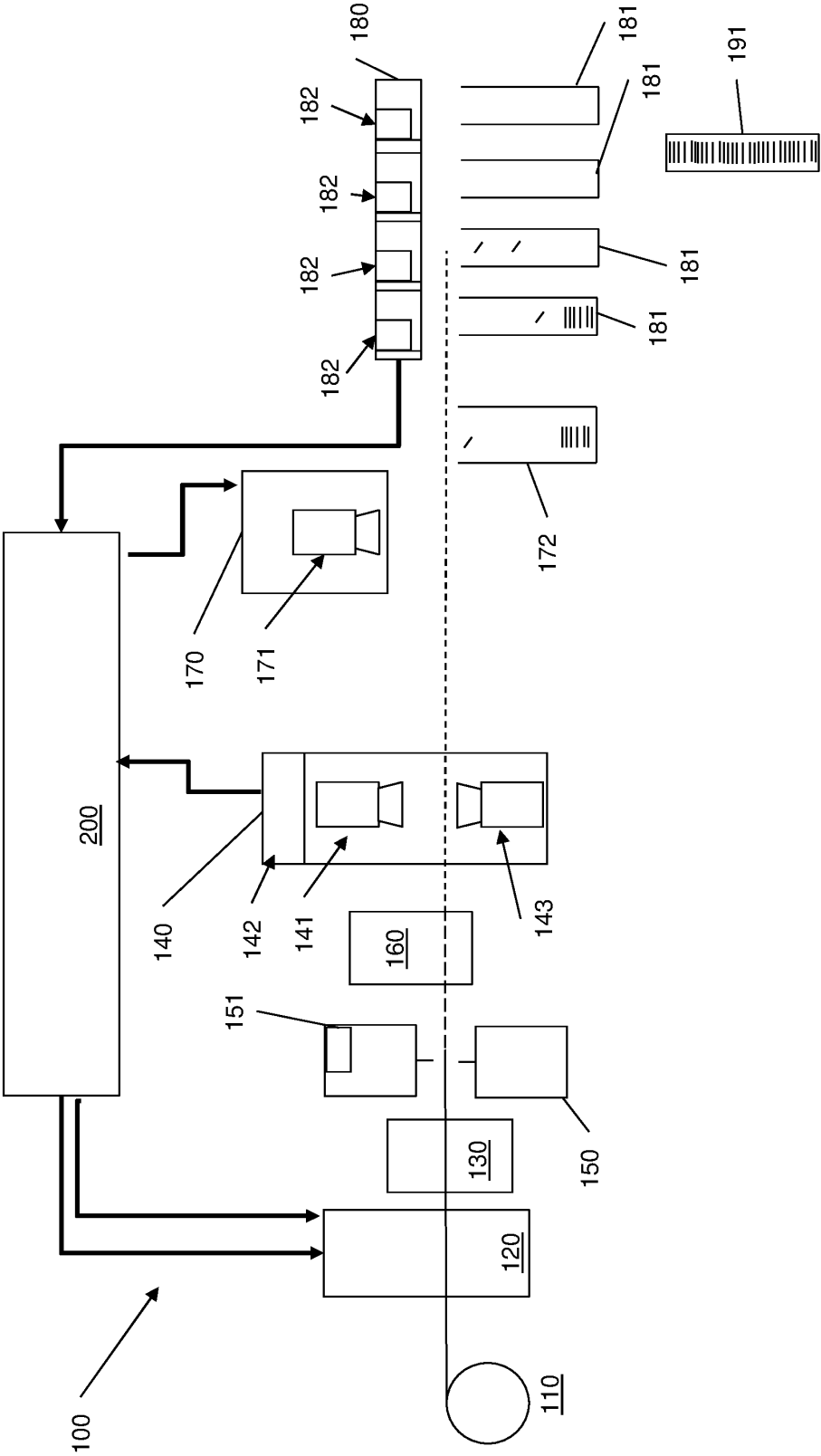
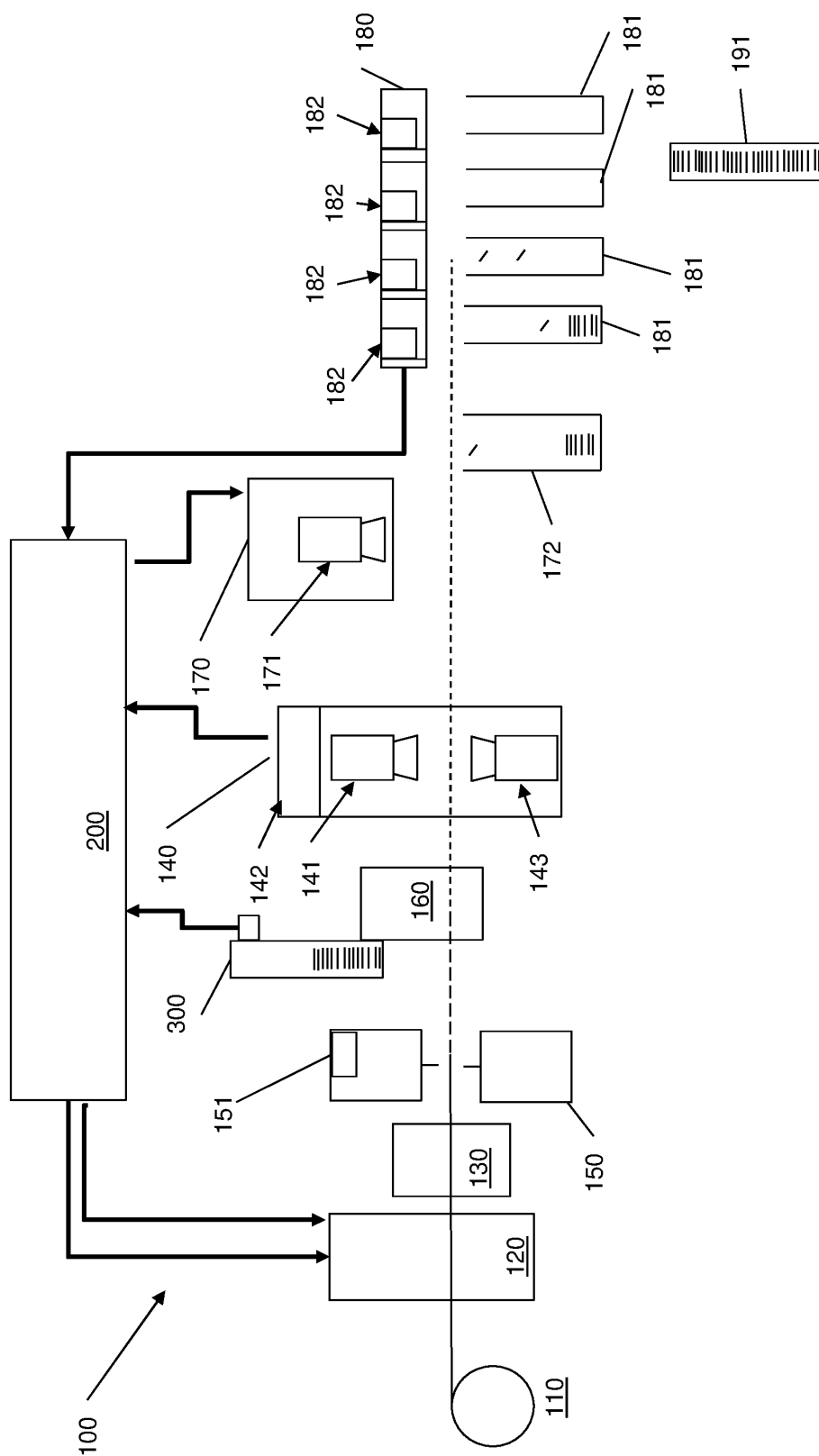


Fig. 3



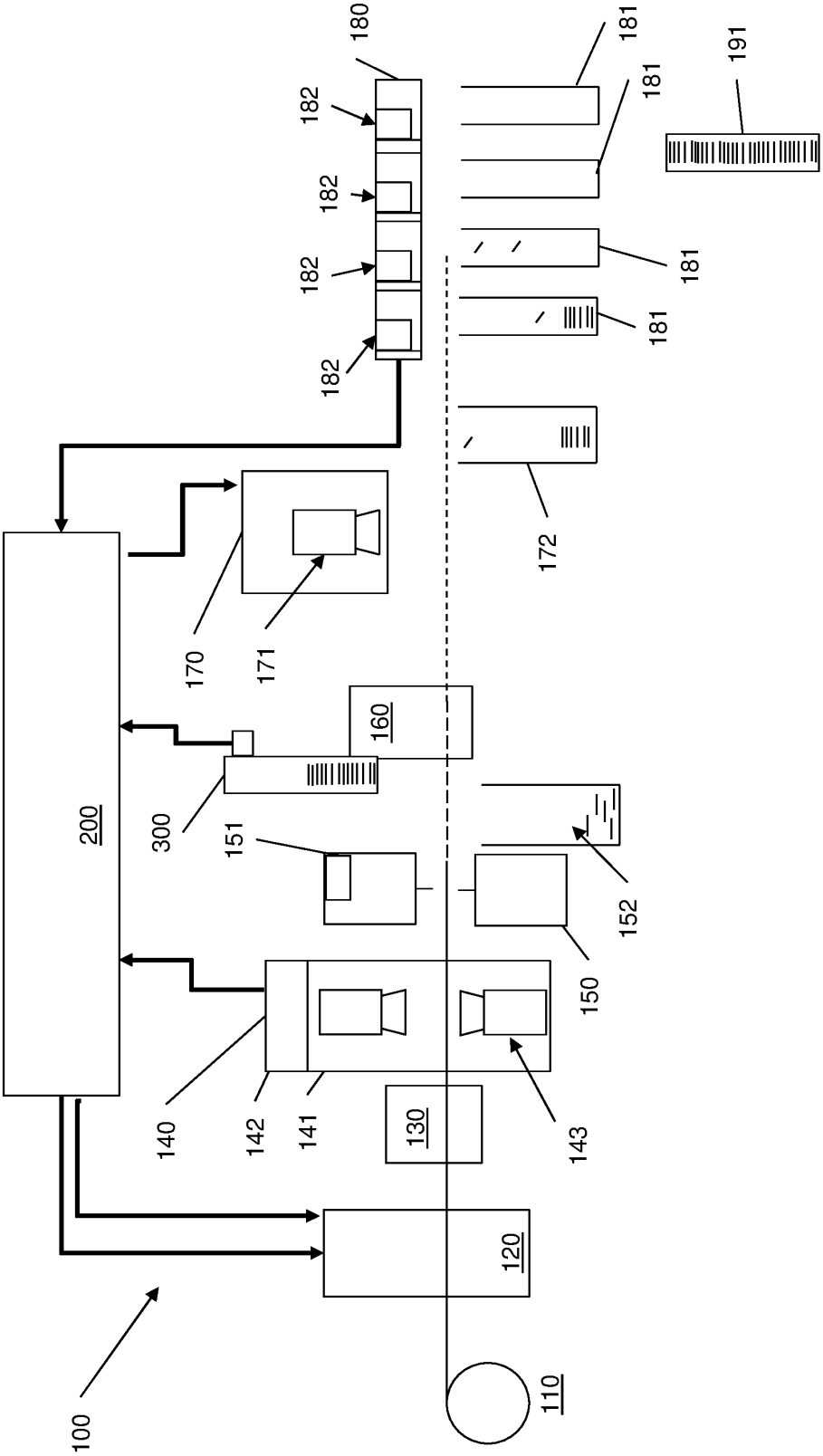


Fig. 5

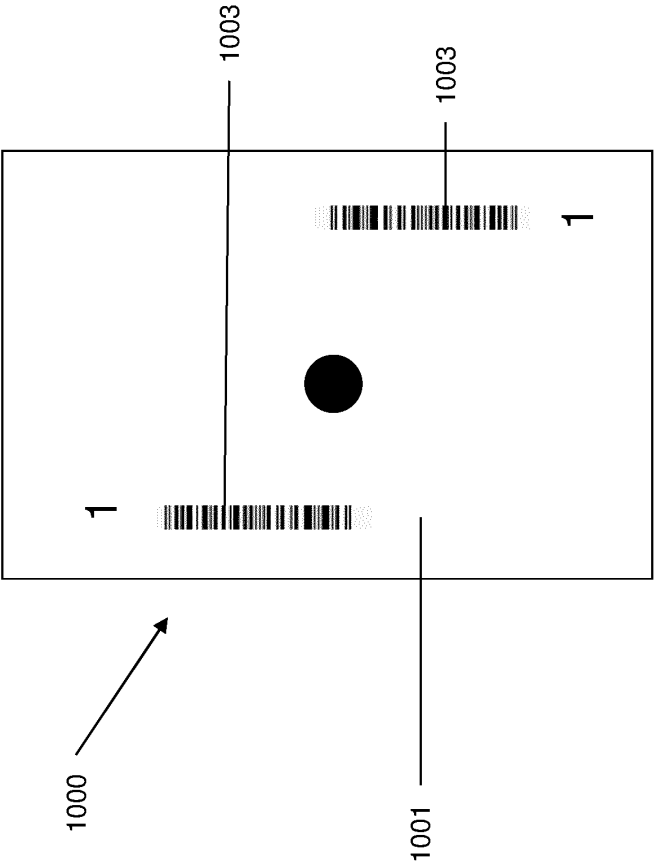


Fig. 6

encryption key (2005)	38	rank (2003)	card# (2004)	rank (2006)	card identity (2001)	card id# (2010)	card id# code (1003)
♥	1	1	1	1	1 0 1 0 1 0 1 0 1 0 0 2 5 3 8 9 6 4 5 7 5 2 3 9	1	
	2	2	2	1	0 1 1 1 1 1 0 0 0 1 9 6 5 8 6 2 1 4 5 6 3 2 5 6	2	
	3	3	3	0	1 1 1 1 0 1 0 1 0 1 0 1 7 8 8 5 6 7 5 5 5 5 5	3	
♦	...	1	14	0	0 0 0 0 0 0 0 1 1 1 1 2 1 1 1 2 6 2 3 2 4 8 5 4 4	...	...
	2	15	15	0	1 1 1 1 1 1 0 1 0 1 0 1 6 3 9 2 1 0 6 0 5 2 7 6 7	...	...
	3	16	16	1	1 1 1 1 0 1 0 1 0 1 0 0 7 5 1 6 9 0 1 2 2 9 5 2 2		
♣	...	1	27	0	0 0 0 0 0 0 0 1 0 0 1 1 8 0 5 8 2 7 5 3 8 5 2 8 3 9		
♠	...	1	40	1	1 1 1 1 1 1 1 1 1 1 0 7 0 4 7 6 7 5 1 6 9 6 6 9 1		
	2	41	41	1	0 0 1 1 1 1 1 1 1 1 0 8 3 3 5 0 3 0 6 0 7 5 8 2 0		
	3	42	42	0	1 1 1 0 0 0 1 1 1 0 1 3 3 0 0 3 6 4 0 2 9 8 5 5 2		
	...						

Fig. 7