

(19)
(12)

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2004 01 31
10-0416686
2004 01 15

(21) 10-2000-0059925
(22) 2000 10 12

(65)
(43)

10-2002-0029148
2002 04 18

(73) 114

(72) 699

(74)

:

(54)

(diagnostic image) (integration) (

coded excitation pulse) 가 (up) , (

down) 1 2 , (level) (random code)

3a

, , , , ,

1 .

2 .

3a .

3b 3c 3a .

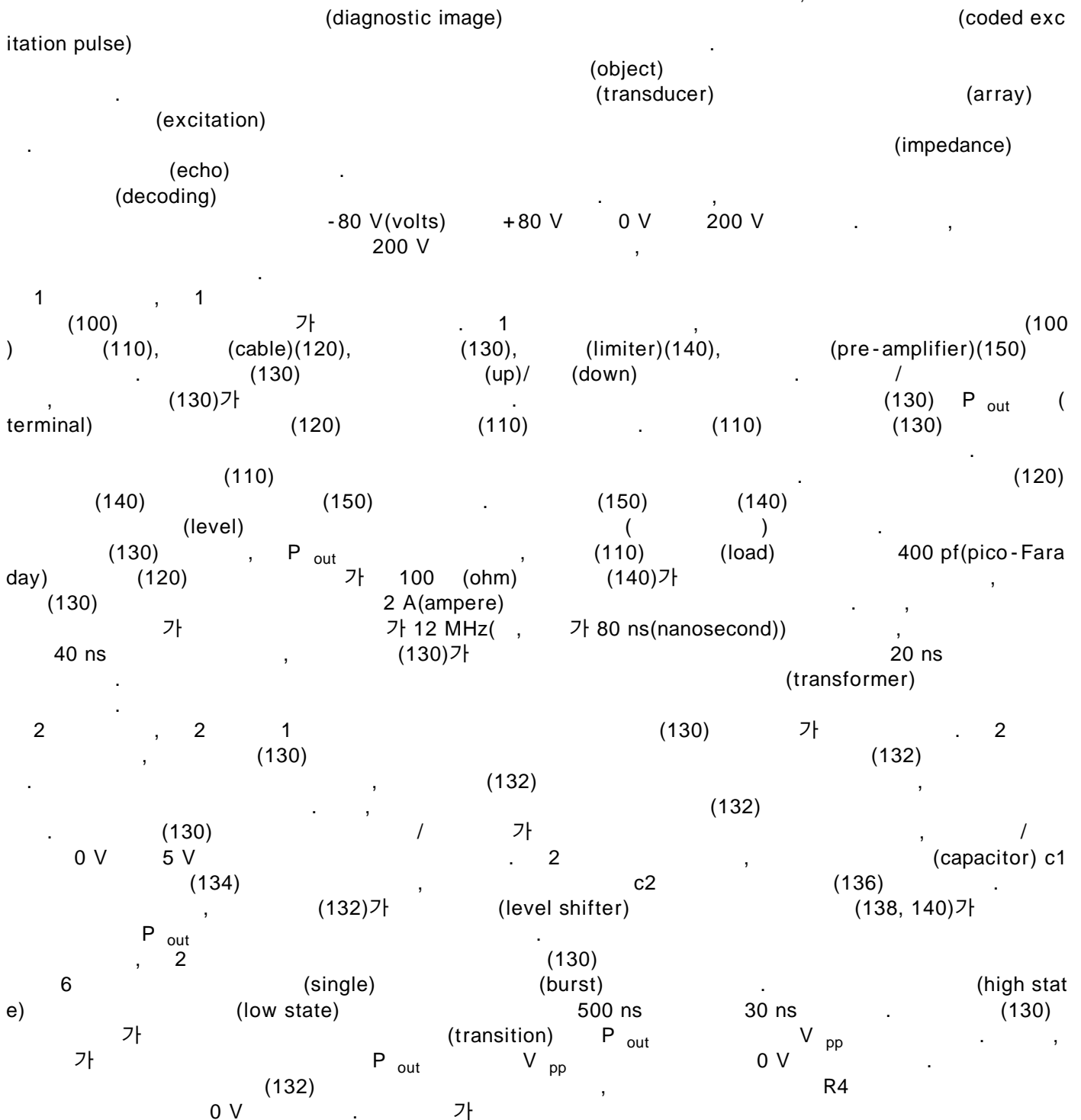
4 (single) .

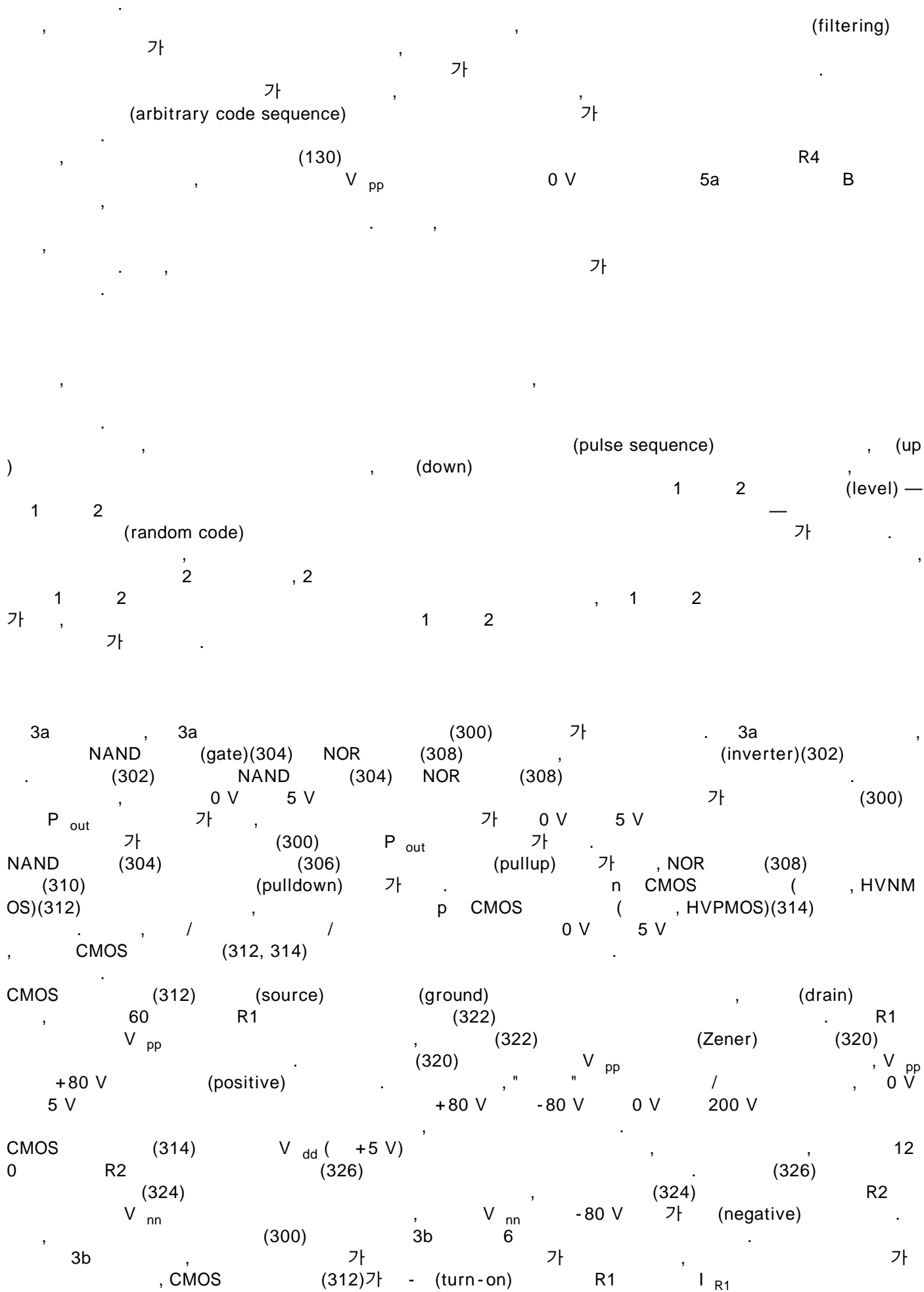
5a

5b

6

(coded excitation pulse)





(320) (5 V)+ (322) (conducting) I_{D3} (2*1.5 V) V_{pp} (node) U_g 8 V(CMOS (316) (316)가 - .
 , 가 R2 V_{nn} (314)가 - CMOS (turn-off) D_g V_{nn} CMO
 S C_d CMOS (318) 4 5a A CMOS (316) P_{out}
 V_{pp} 400 pf (load) (330) I_{M3} CMOS (320) (322)가
 V_{pp} (+80 V) CMOS (316) 가 3c CMOS (314)가 - I_{M4} 가 C (3
 MOS (314) I_{D4} 가 D_g V_{nn} R2 I_{R2} 가 U_g V_{pp} 가 U_g (3
 26) CMOS (318) CMOS (312)가 - CMOS (314)가 - CMOS U_g
 , CMOS (318)가 - C_u 가 R1 (I_{OU}) U_g V_{pp} 가 .
 , CMOS (316) CMOS (316)가 - (330) V_{nn}
 4 5a A CMOS (318) V_{nn} CMOS (324) CMOS P_{out} (318) V_{nn}
 가 (, -80 V) I_{M2} 가 CMOS (326) CMOS (316) CMOS (316) CMOS
 (318) CMOS (318) p CMOS (316) CMOS
 , 5a (300) U_g / 가 V_{pp} 가 D_g V_{nn}
 , CMOS (316, 318)가 - P_{out} (, 0 V) 5a A V_{nn}
 (328) +80 V -80 V 가 (,) P_{out} C
 / / 가 가
 6 () 가
 .
 가 ,
 , /
 200 V CMOS , ,
 가 .

(57)

1. (transducer array)

(random pulse sequence)

(up)

(down)

(level) — 1 2

+80V(volt) -80V 0V +200V

2.

3.

1

(logic high) (low)

4.

1

5.

1

1

2

6.

4

2 (switching

)

7.

1

(inverter)

8.

7

가 NAND (gate)

9.

7

가 NOR

10.

6

11.

6

(Zener)

12.

(excitation)

2

2

13.

2

1 +80V 2 -80V 0V +200V

(random code)

1

14.

12

15.

12

16.

12

2

17.

(logic state)

14

18.

12

2

19.

12

2

20.

19

가 NAND

21.

19

가 NOR

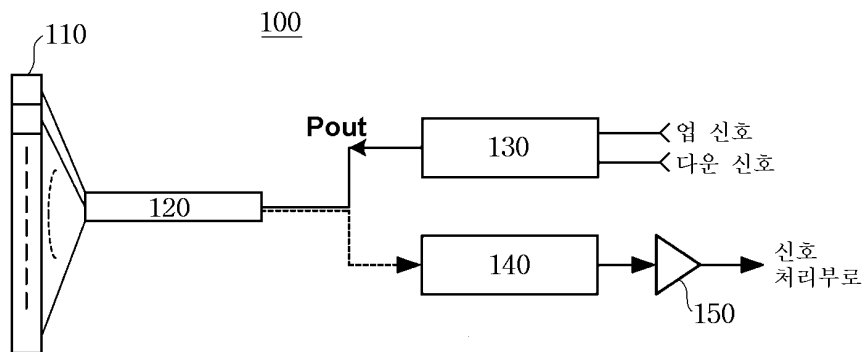
22.

18

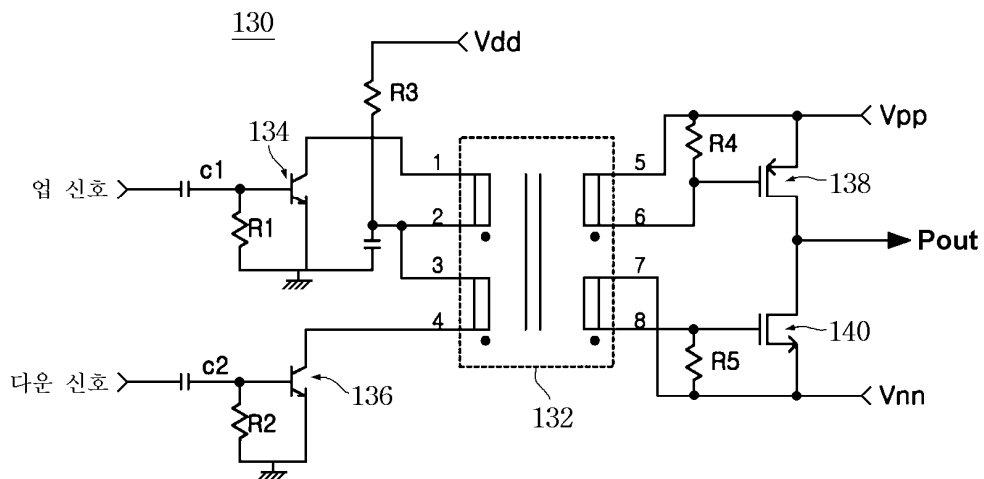
23.

18

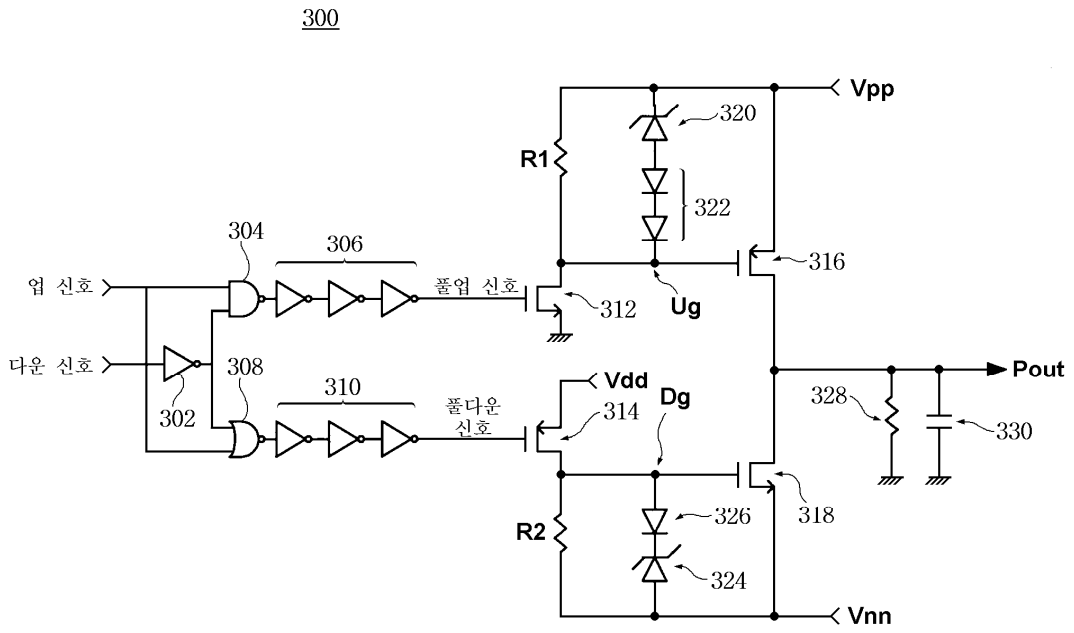
1



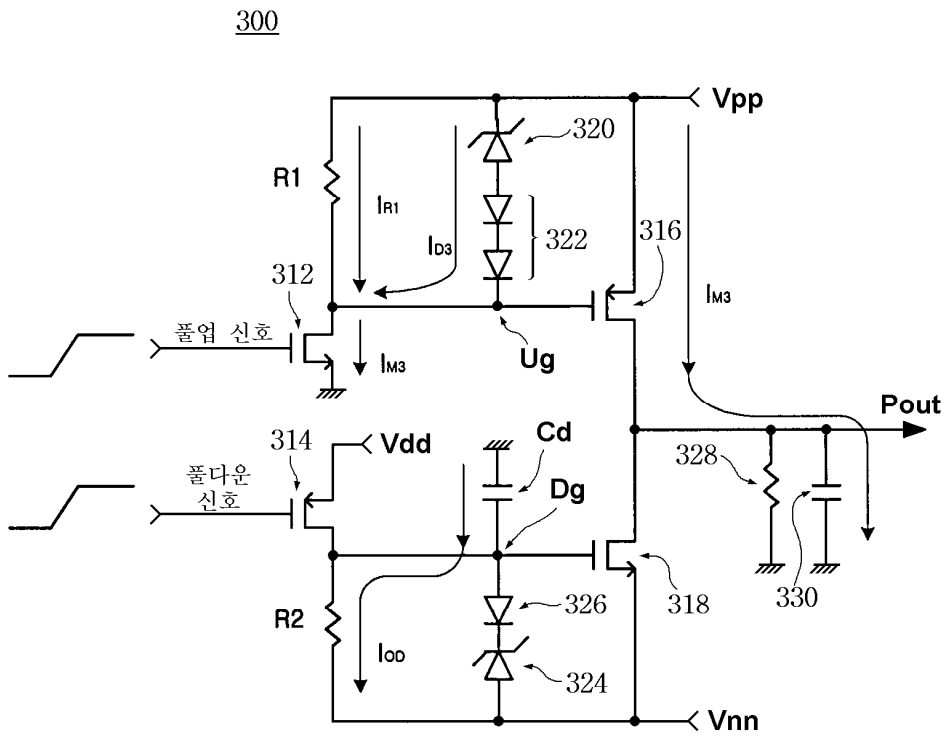
2



3a

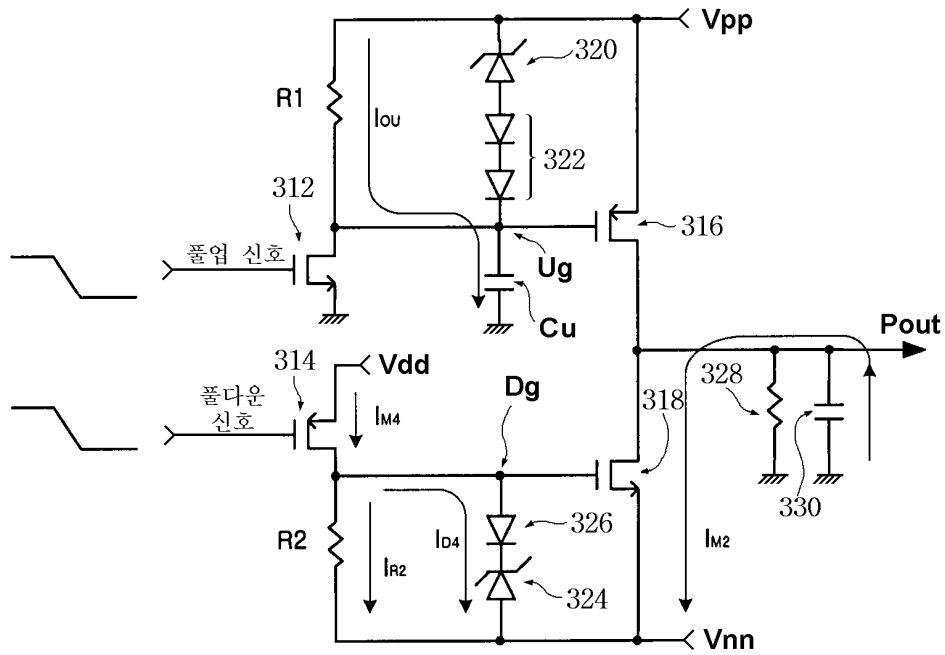


3b

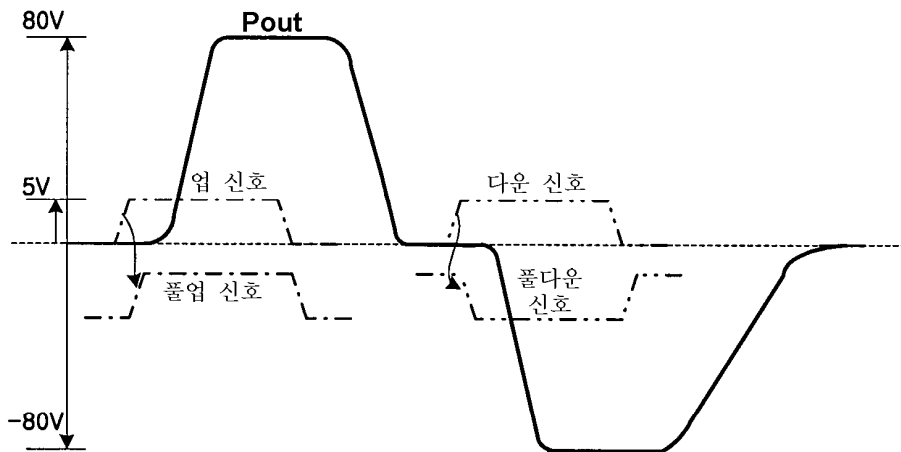


3c

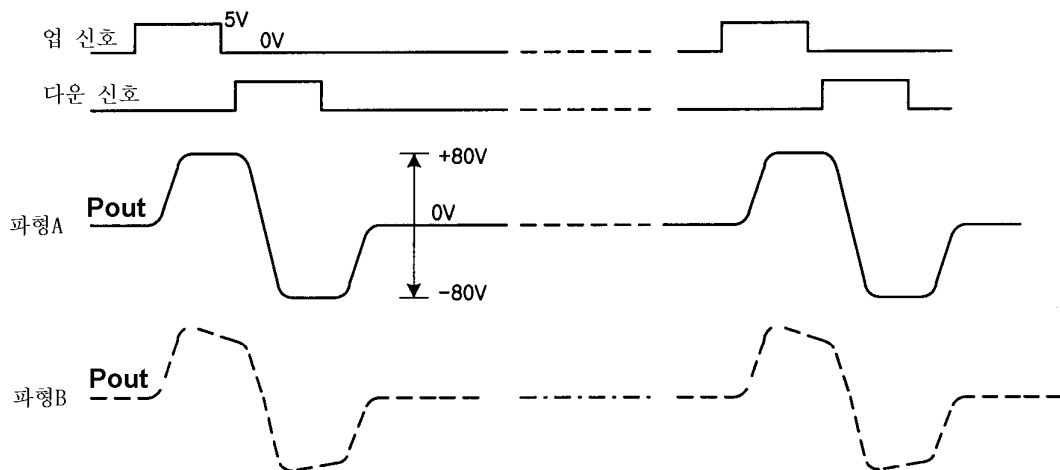
300



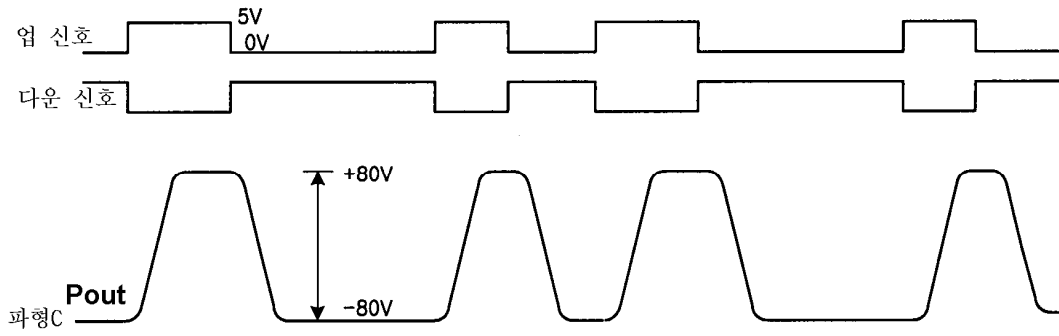
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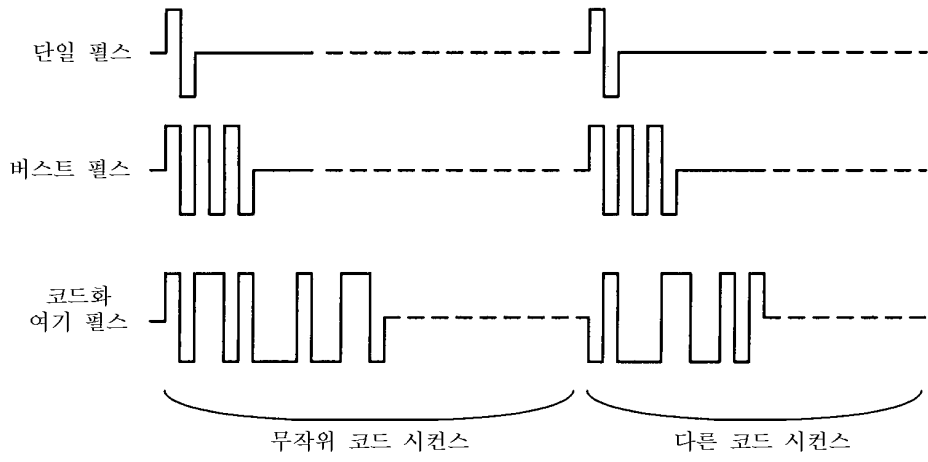
5a



5b



6



专利名称(译)	一种用于医疗超声诊断系统的集成高压脉冲发生器电路		
公开(公告)号	KR100416686B1	公开(公告)日	2004-01-31
申请号	KR1020000059925	申请日	2000-10-12
[标]申请(专利权)人(译)	三星麦迪森株式会社		
申请(专利权)人(译)	三星麦迪逊有限公司		
当前申请(专利权)人(译)	三星麦迪逊有限公司		
[标]发明人	JEON KI		
发明人	JEON, KI		
IPC分类号	B06B1/02 A61B8/00		
CPC分类号	B06B2201/76 B06B1/0215		
代理人(译)	CHANG, SOO KIL CHU, 晟敏		
其他公开文献	KR1020020029148A		
外部链接	Espacenet		

摘要(译)

集成电路产生高压编码激励脉冲，用于在超声诊断系统中产生清晰定义的诊断图像。该集成电路包括至少两个用于产生驱动信号的信号发生器和响应于驱动信号的脉冲发生器，用于产生由第一和第二电压电平的组合构成的脉冲序列，其中脉冲序列由随机码序列。

