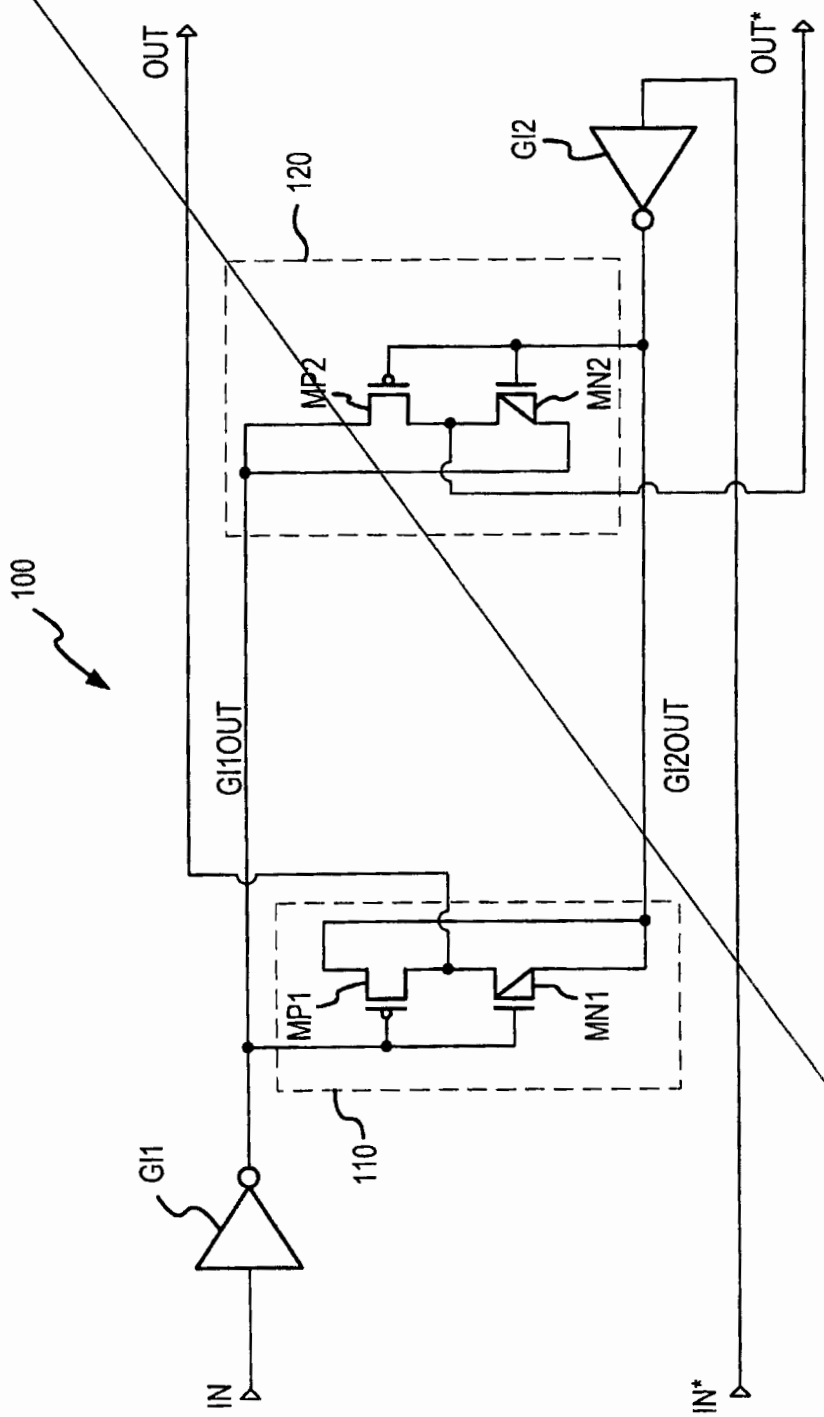


FIG.1

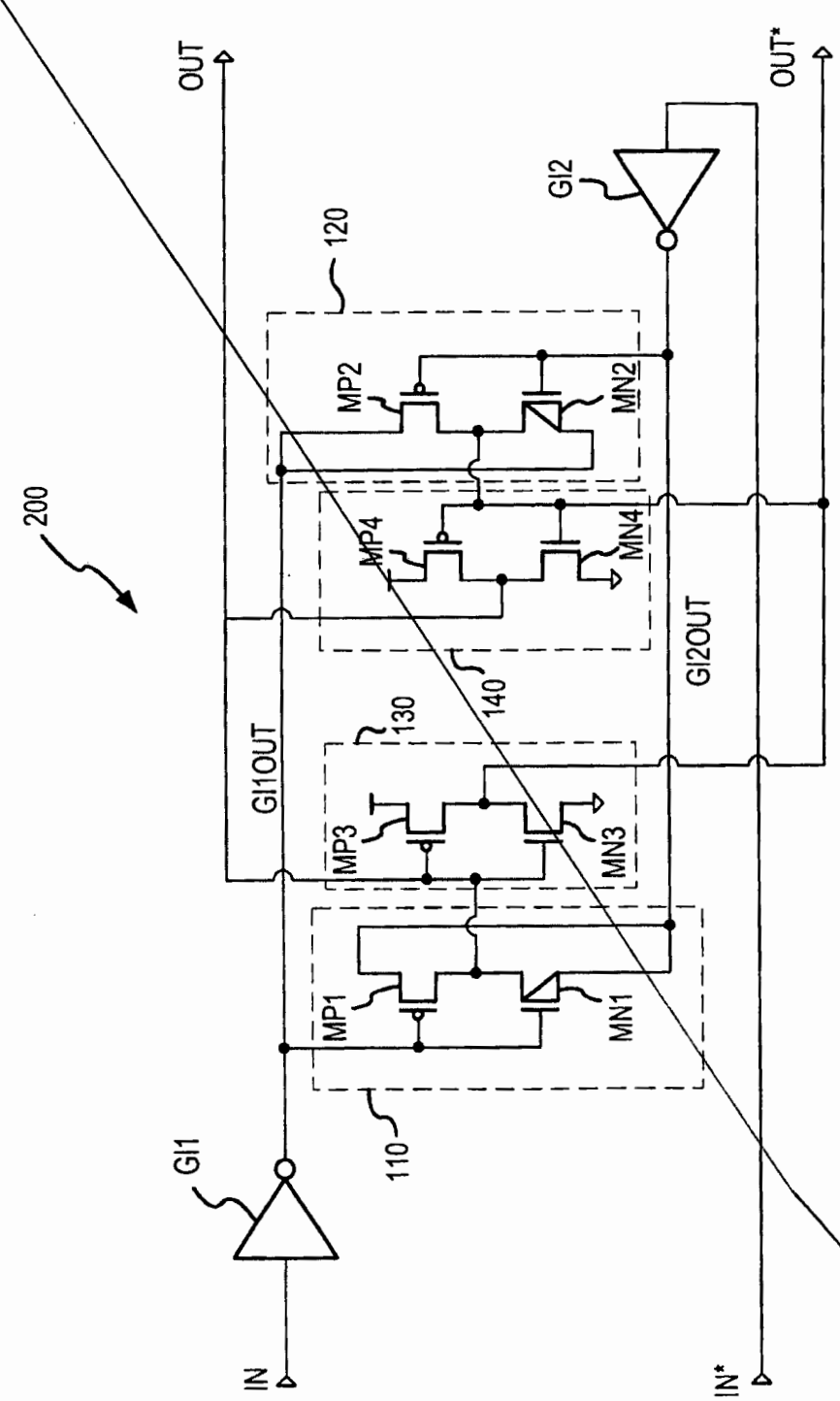

OUT
OUT*
GI2
120
MP2
MN2
MP4
MN4
200
GI2OUT
140
130
GI1OUT
MP3
MN3
MP1
MN1
110
GI1
IN
IN*

FIG.2

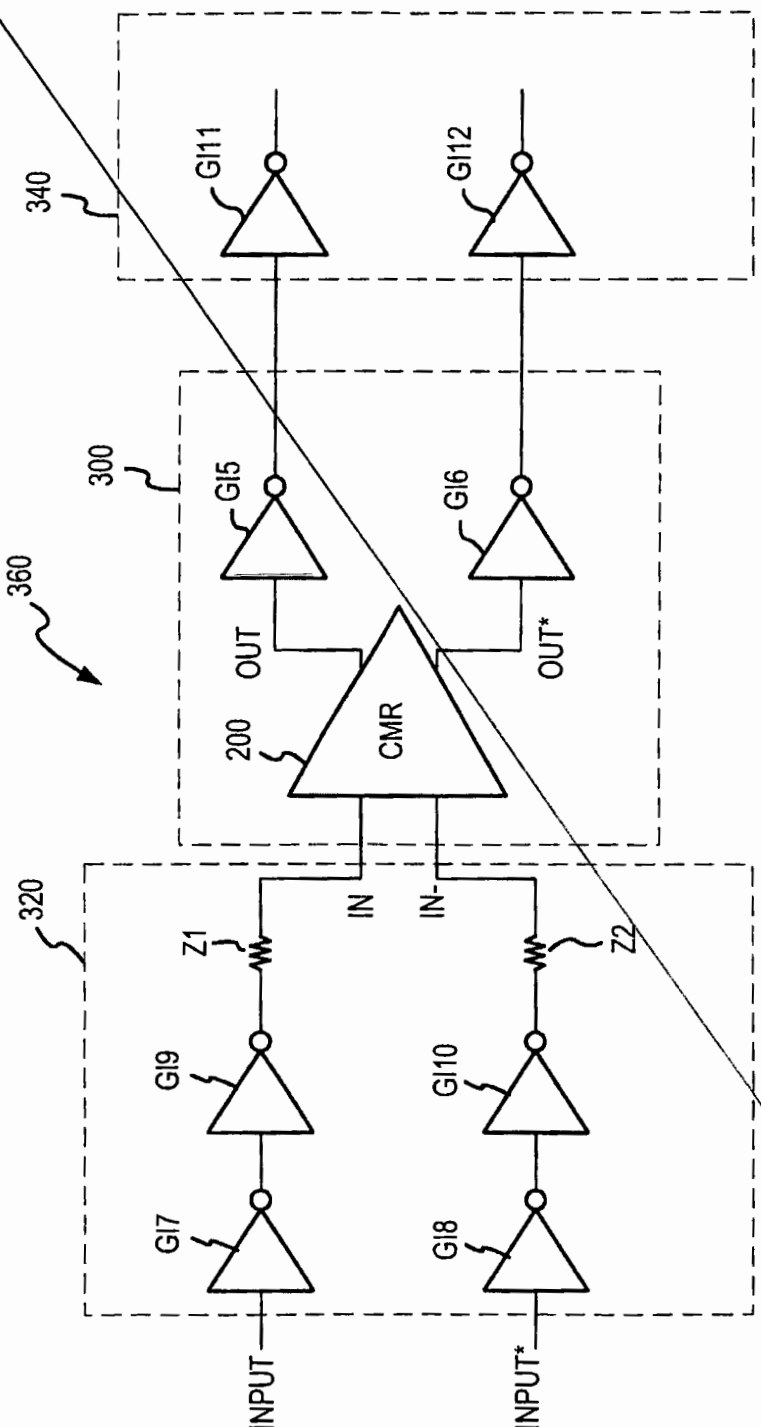

340
GI11
GI12
300
GI5
GI6
360
OUT
OUT*
200
CMR
320
IN
IN-
Z1
Z2
GI9
GI10
GI7
GI8
INPUT
INPUT*

FIG.3

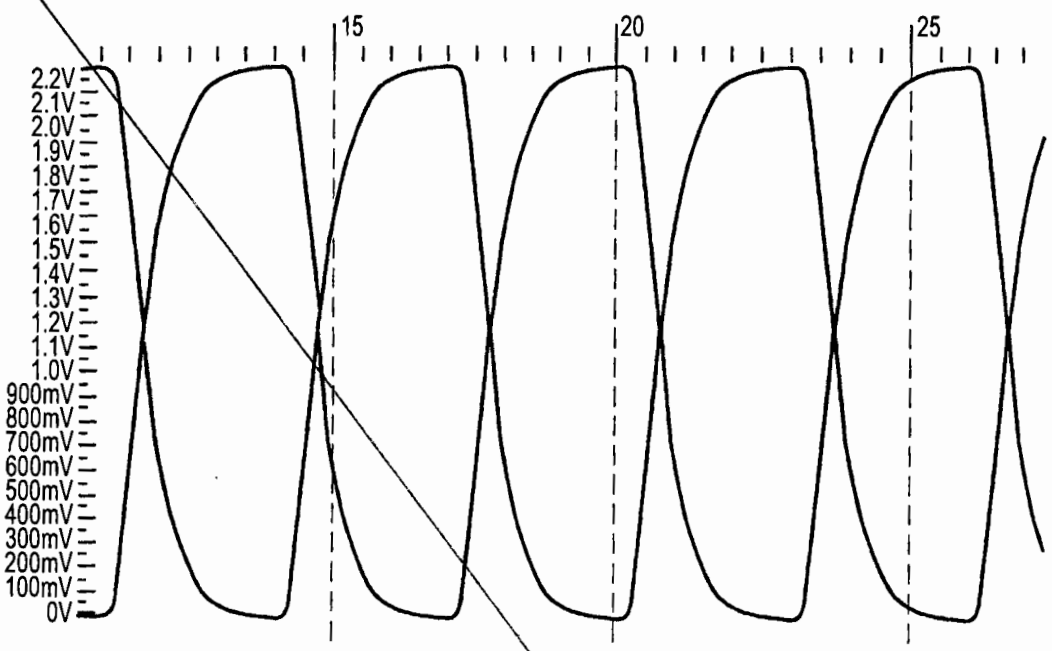

15
20
25
2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V

FIG.4

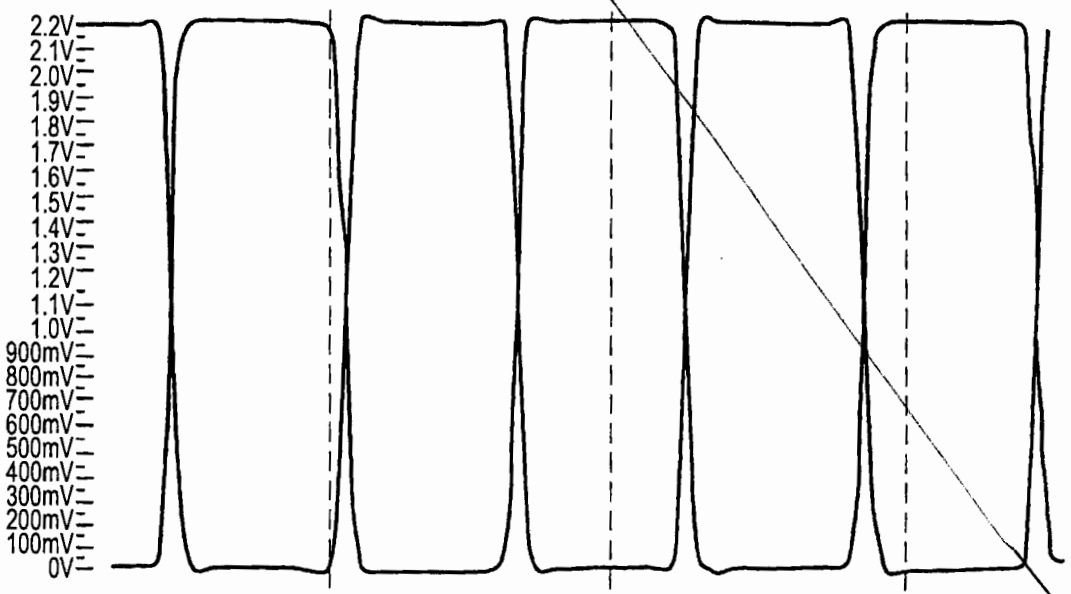

2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V
PROP. DELAY
=0.54ns

FIG.5

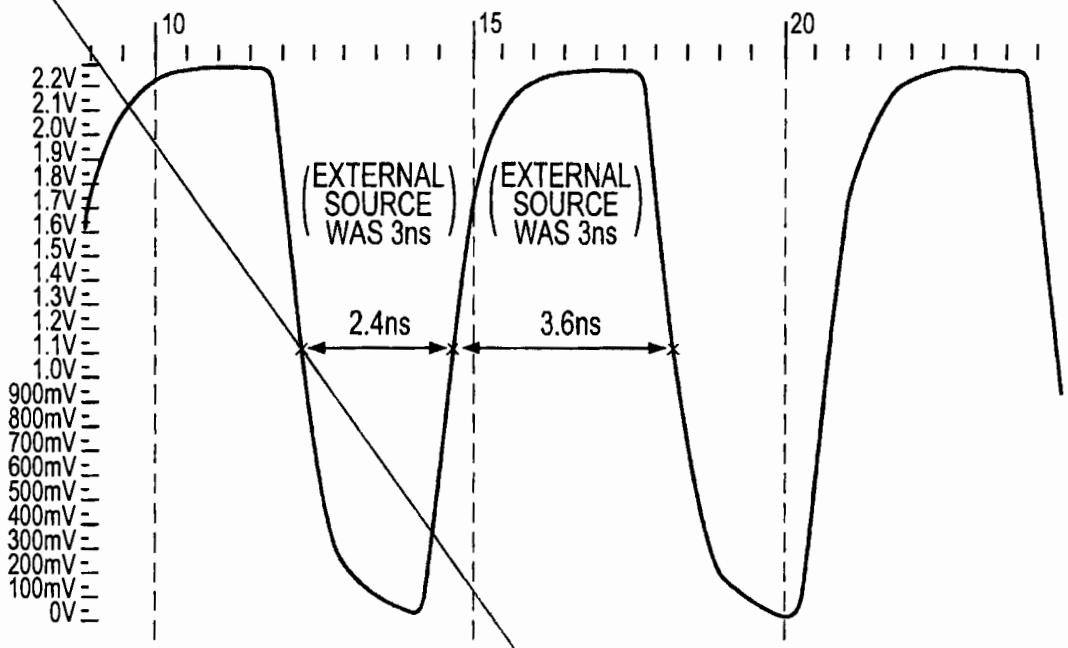

10
15
20
2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V
(EXTERNAL SOURCE WAS 3ns)
(EXTERNAL SOURCE WAS 3ns)
2.4ns
3.6ns

FIG.6

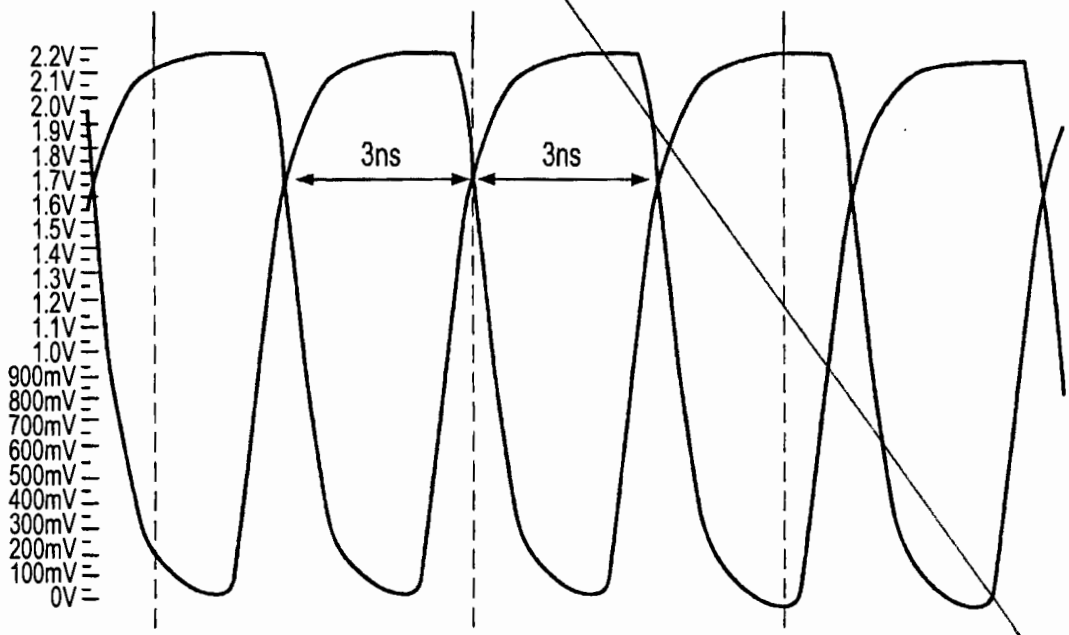

2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V
3ns
3ns

FIG.7

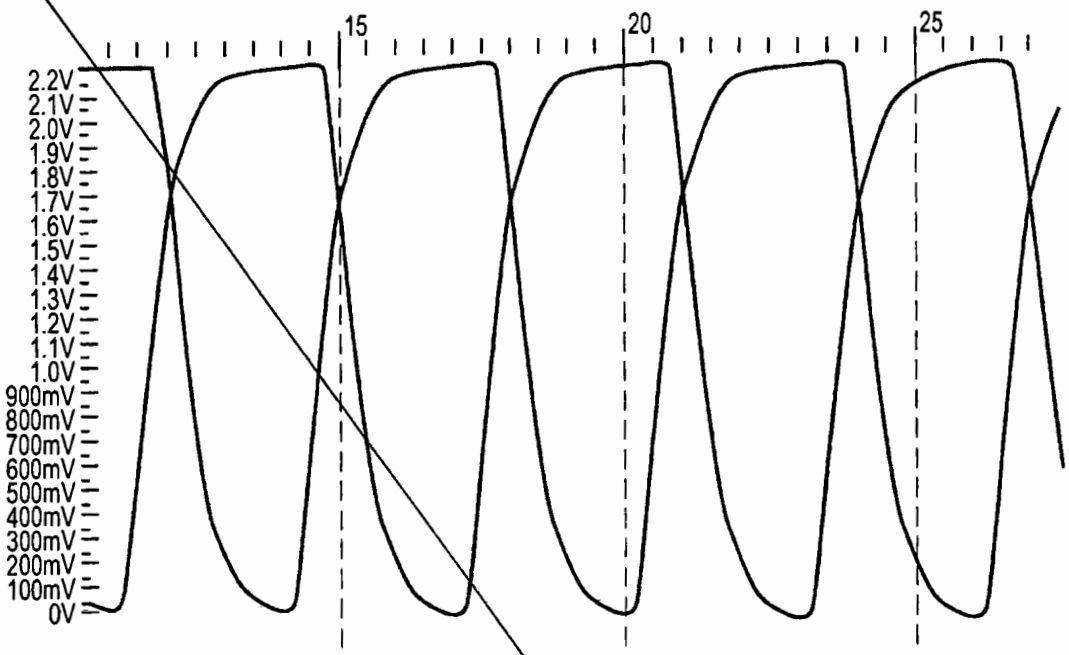

15
20
25
2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V

FIG.8

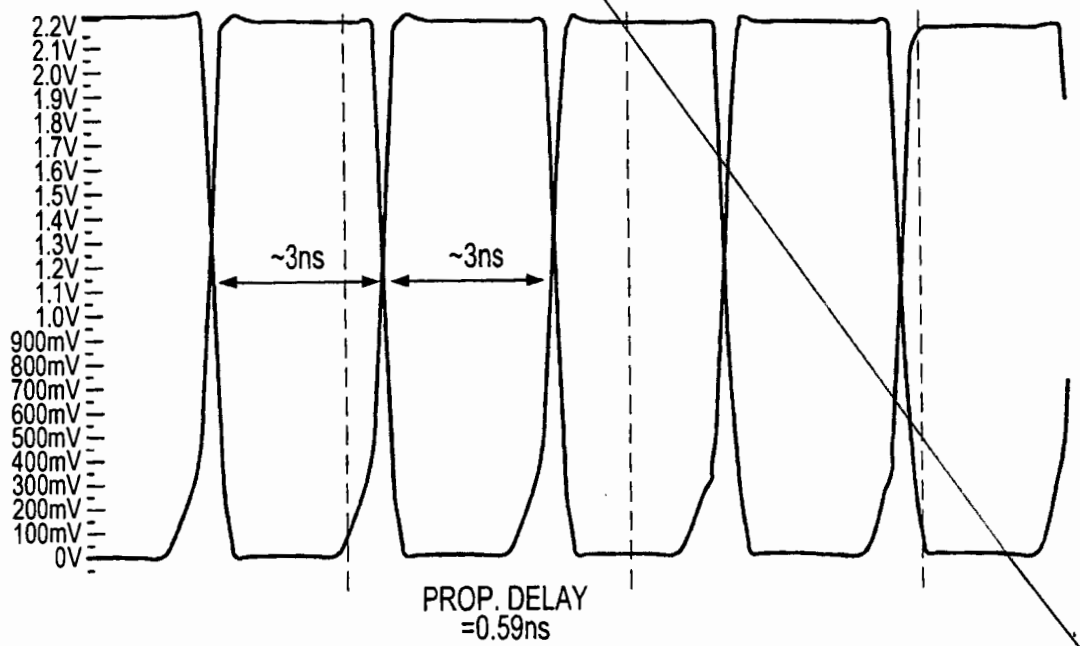

2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V
~3ns
~3ns
PROP. DELAY
=0.59ns

FIG.9

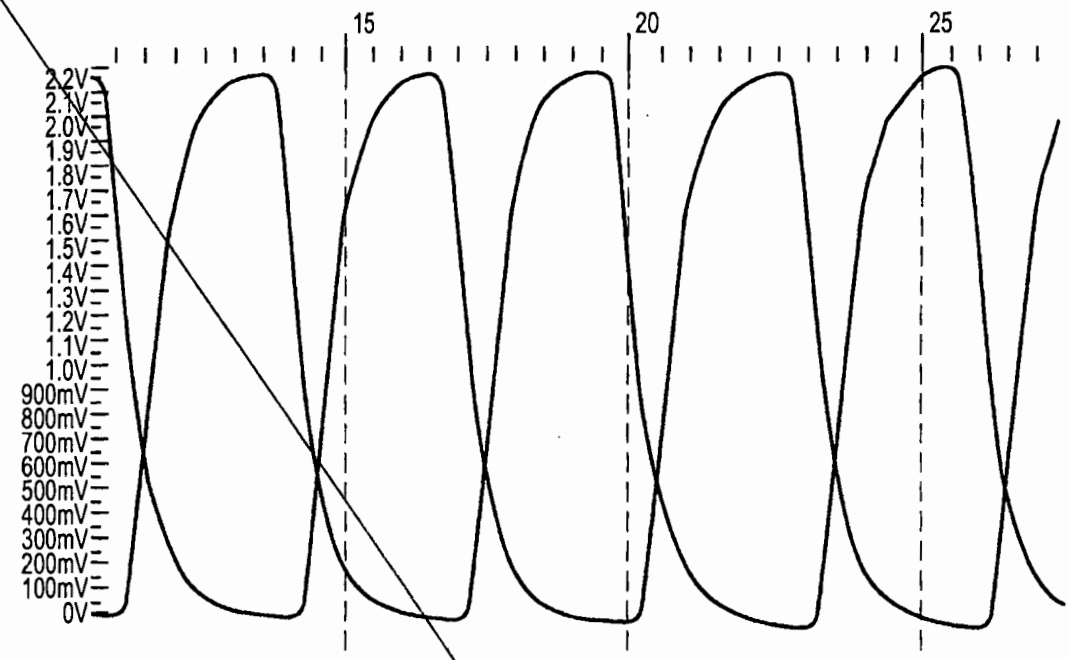

15
20
25
2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V

FIG.10

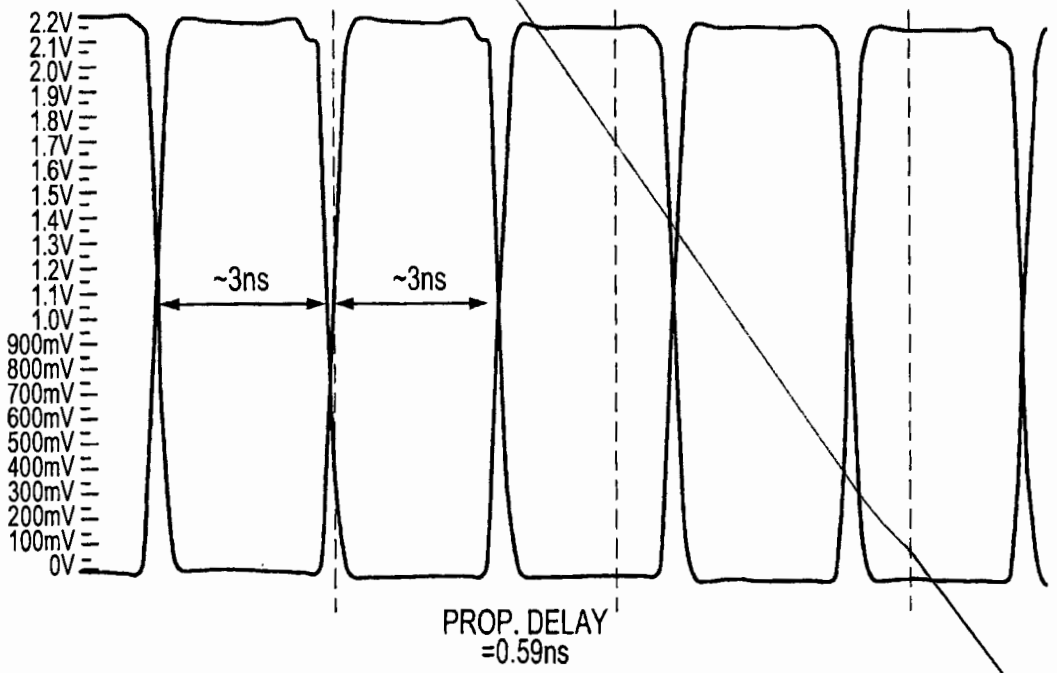

2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V
~3ns
~3ns
PROP. DELAY
=0.59ns

FIG.11

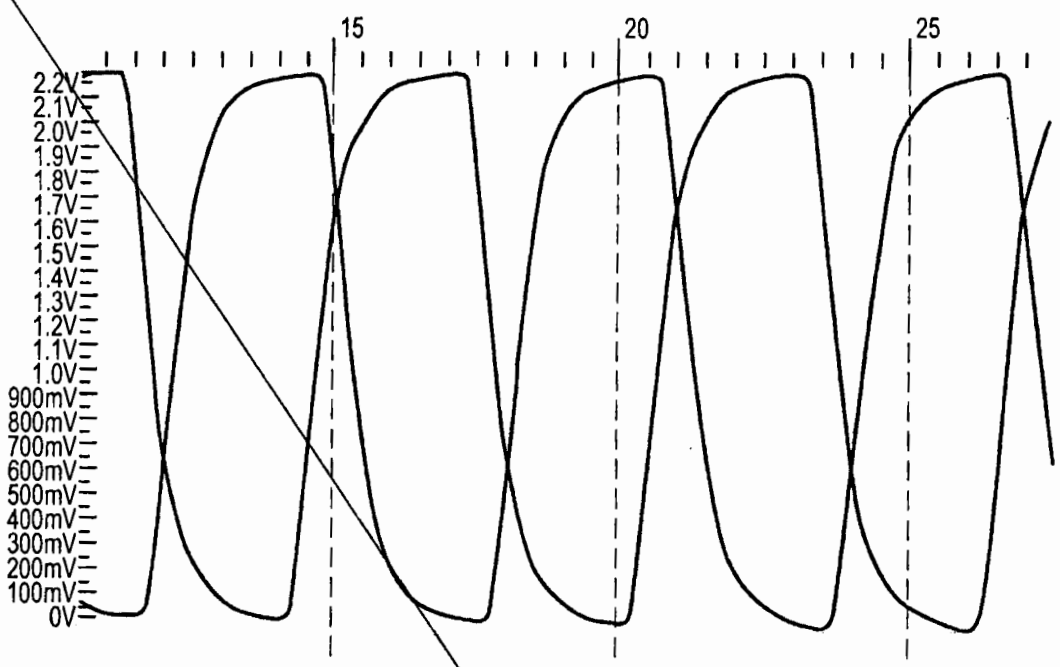
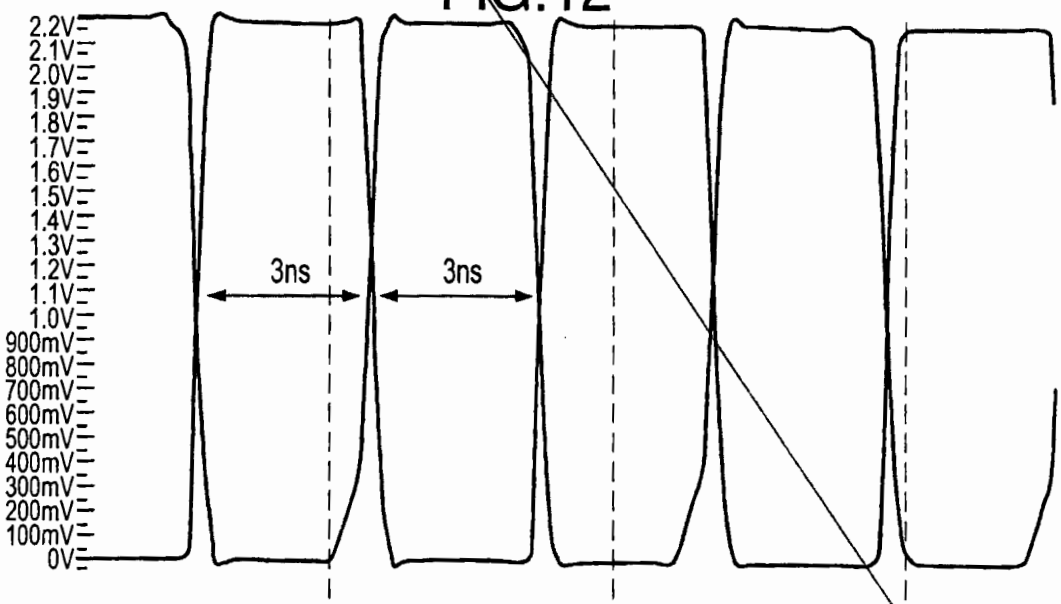


FIG.12



PROP. DELAY
=0.56ns
&
0.59ns

FIG.13

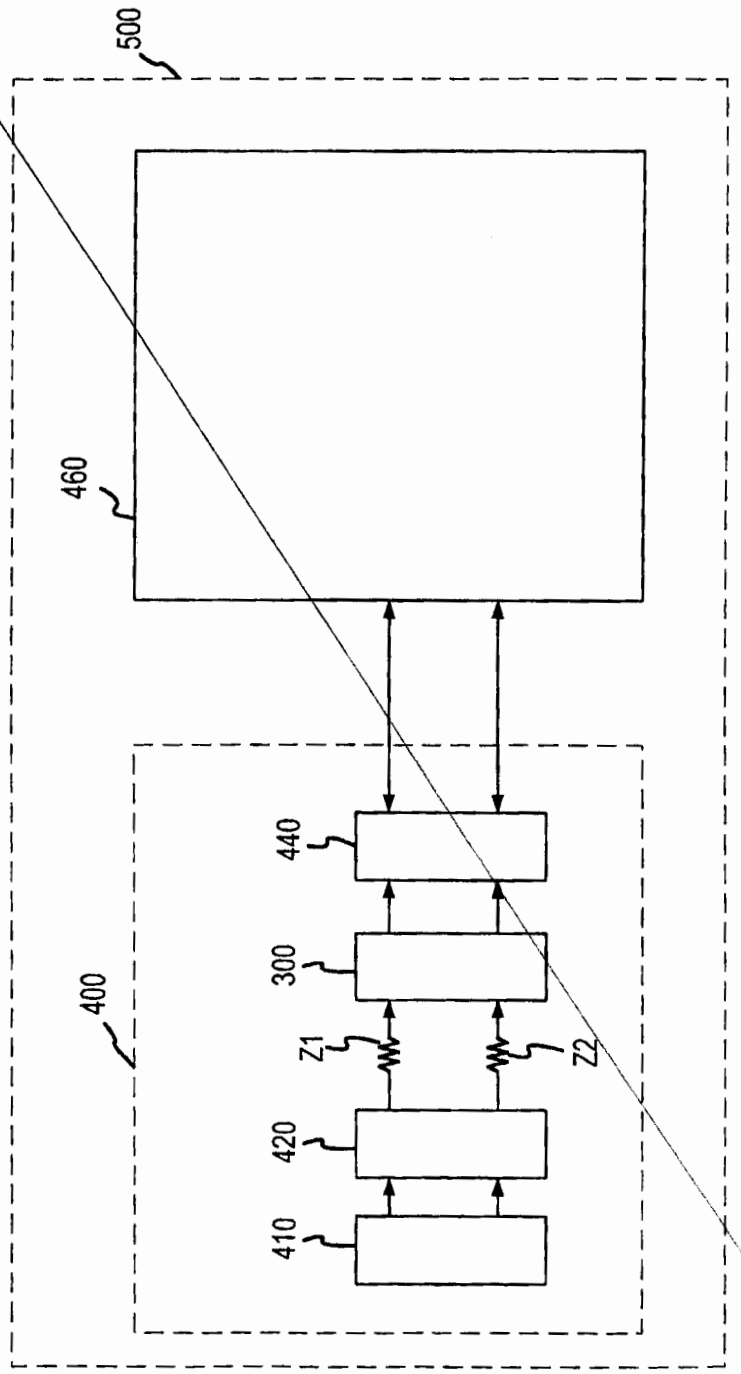


FIG.14

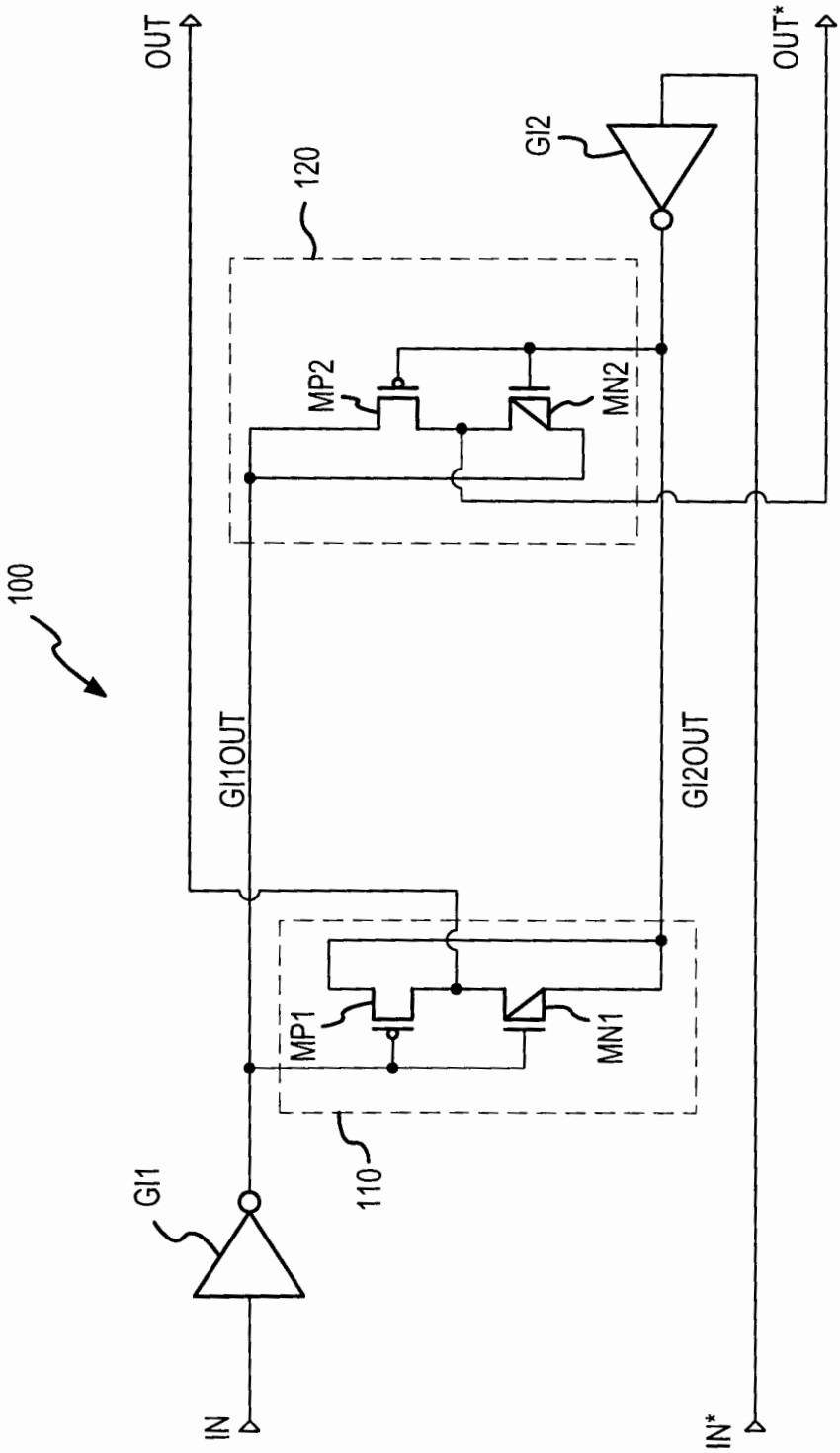


FIG.1

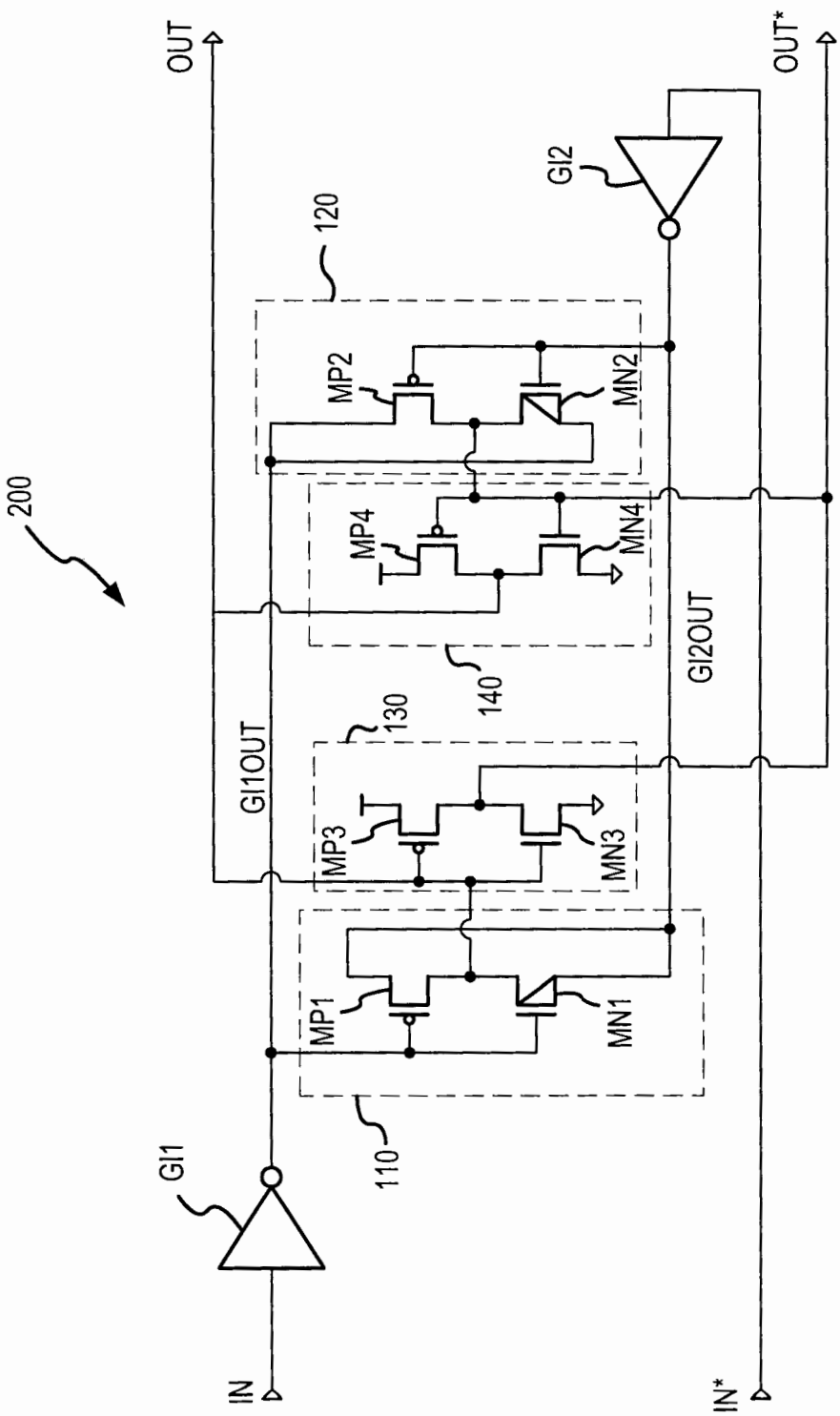

200
OUT
OUT*
GI2
120
MP2
MN2
MP4
MN4
140
GI2OUT
GI1OUT
130
MP3
MN3
MP1
MN1
110
GI1
IN
IN*

FIG.2

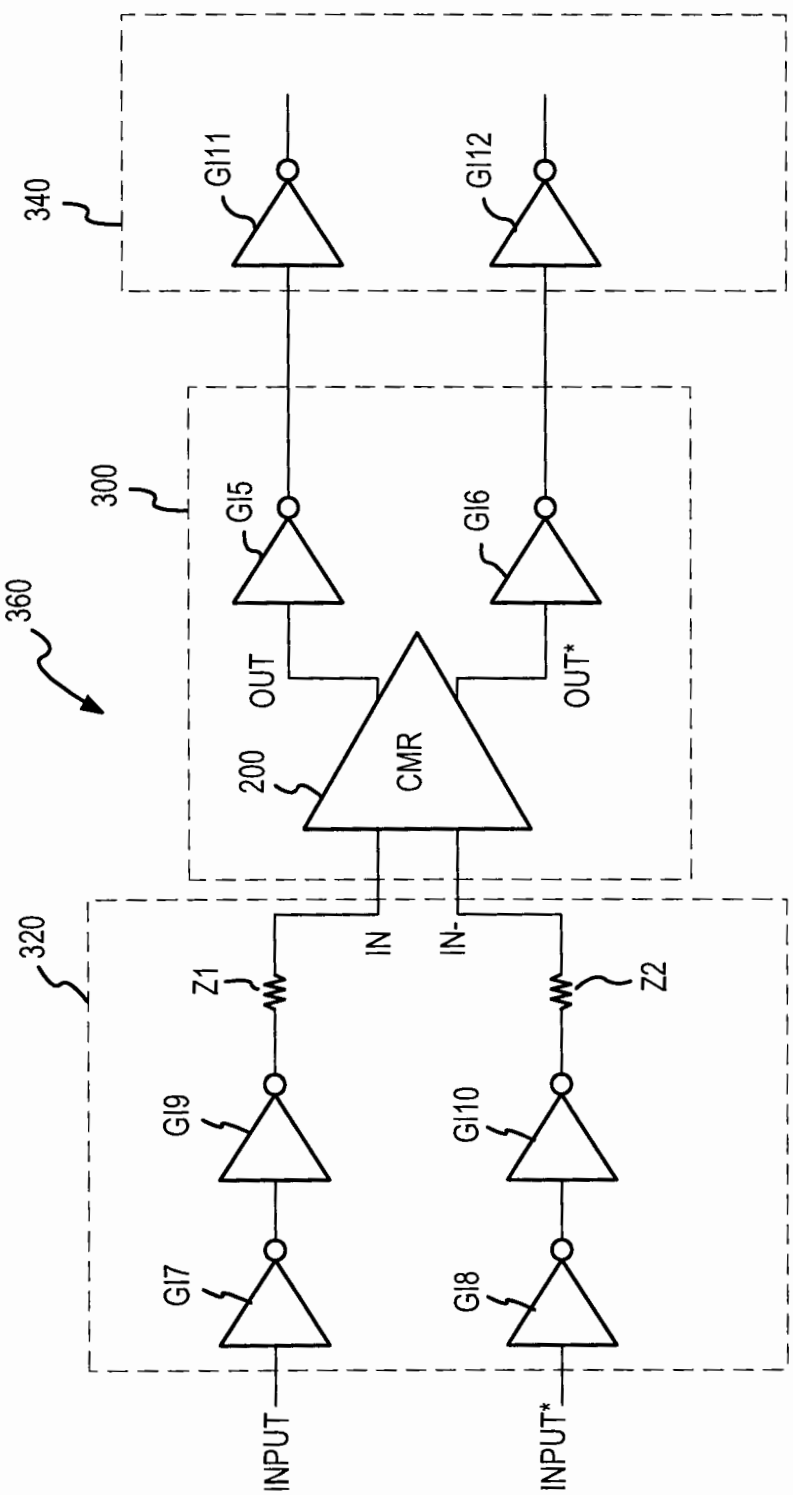

340
GI11
GI12
300
GI5
GI6
360
OUT
OUT*
200
CMR
320
IN
IN-
Z1
Z2
GI9
GI10
GI7
GI8
INPUT
INPUT*

FIG.3

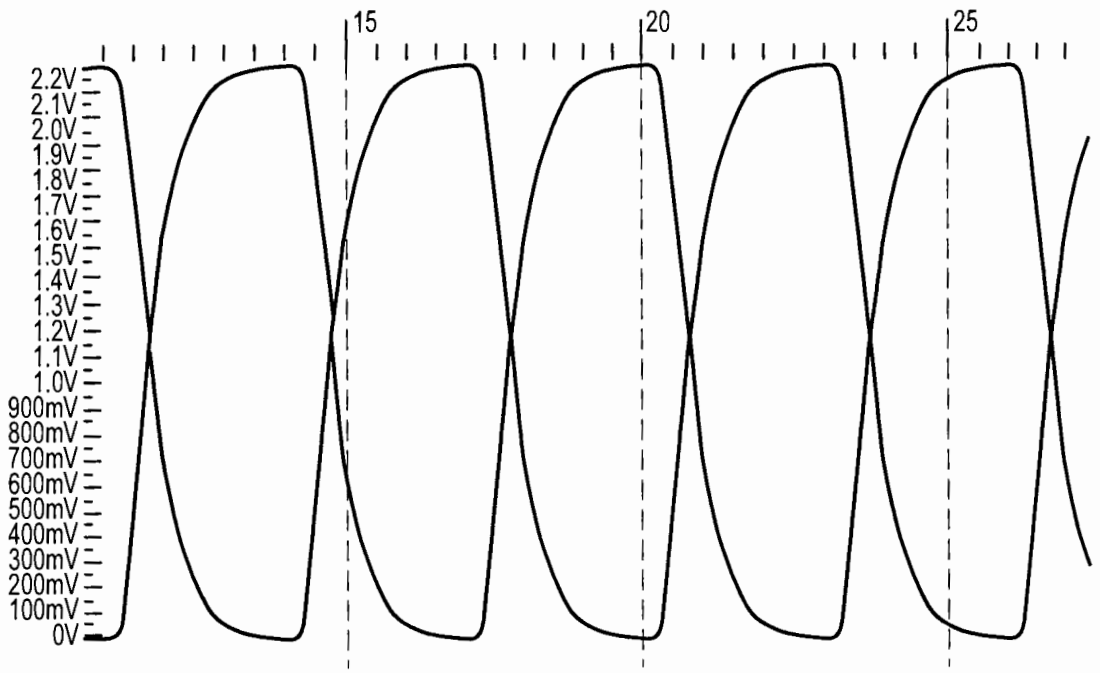

15
20
25
2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V

FIG.4

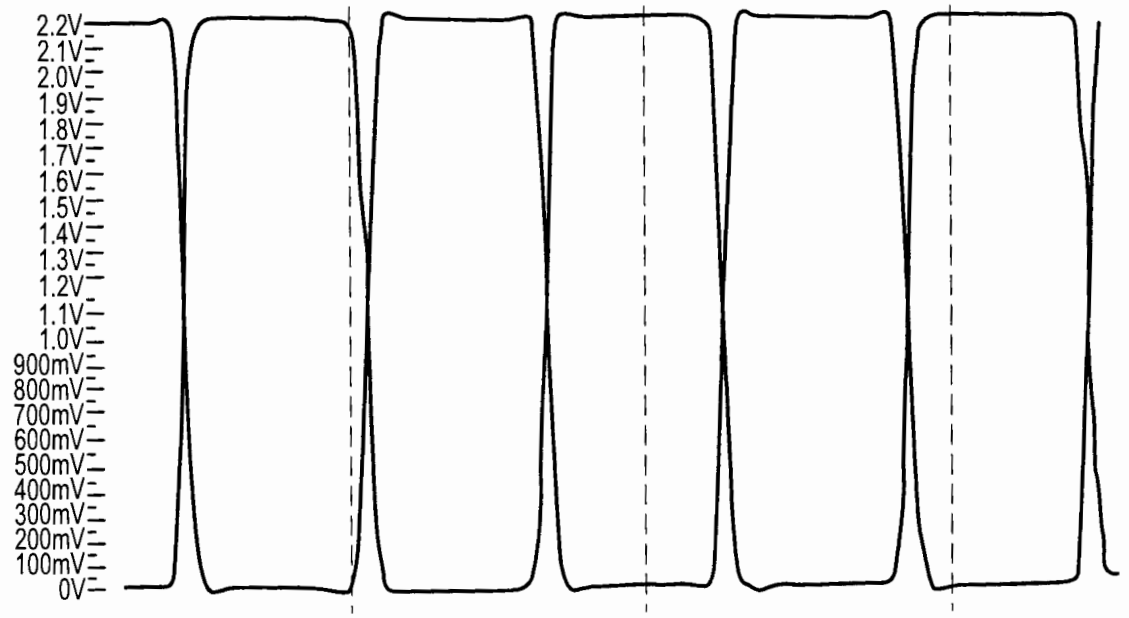

2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V
PROP. DELAY
=0.54ns

FIG.5

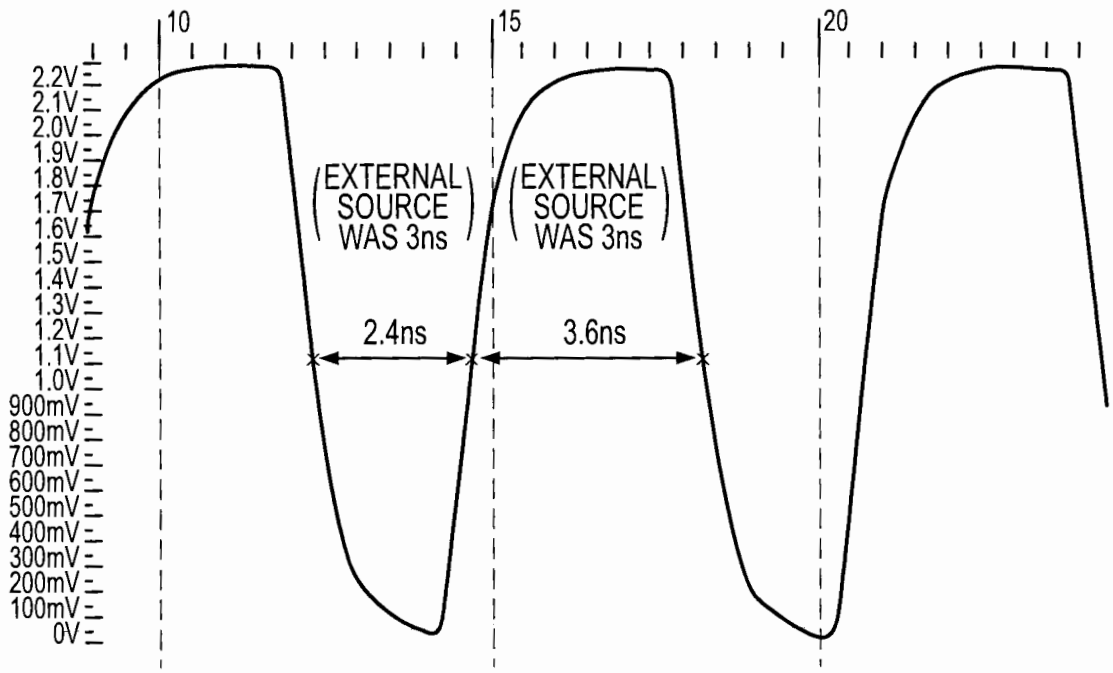

10
15
20
2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V
(EXTERNAL SOURCE WAS 3ns)
(EXTERNAL SOURCE WAS 3ns)
2.4ns
3.6ns

FIG.6

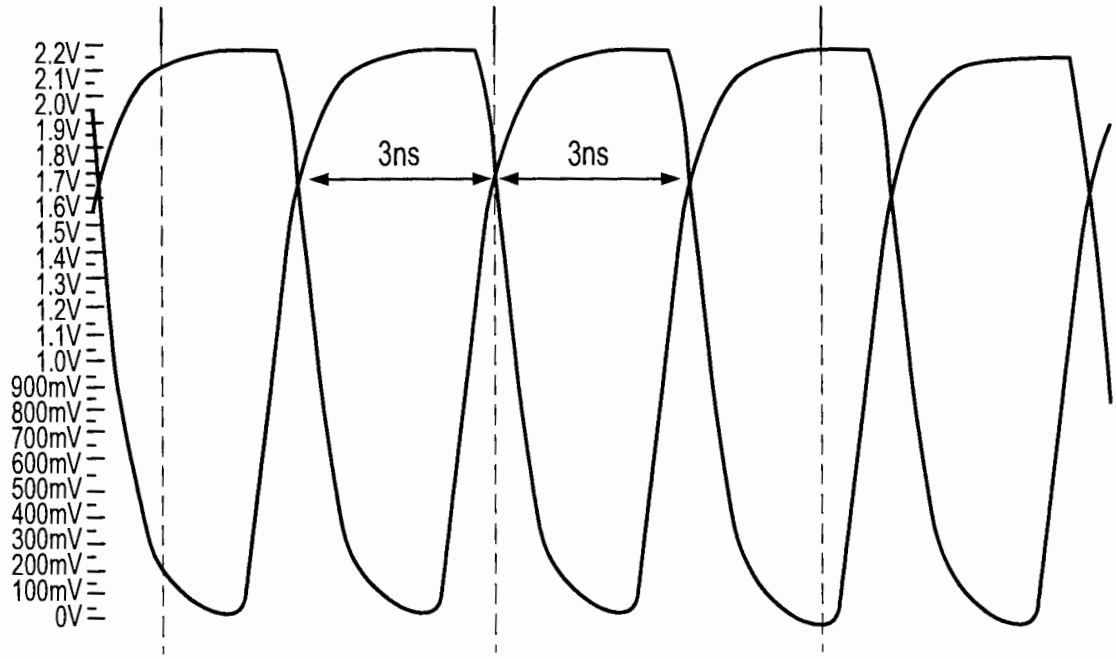

2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V
3ns
3ns

FIG.7

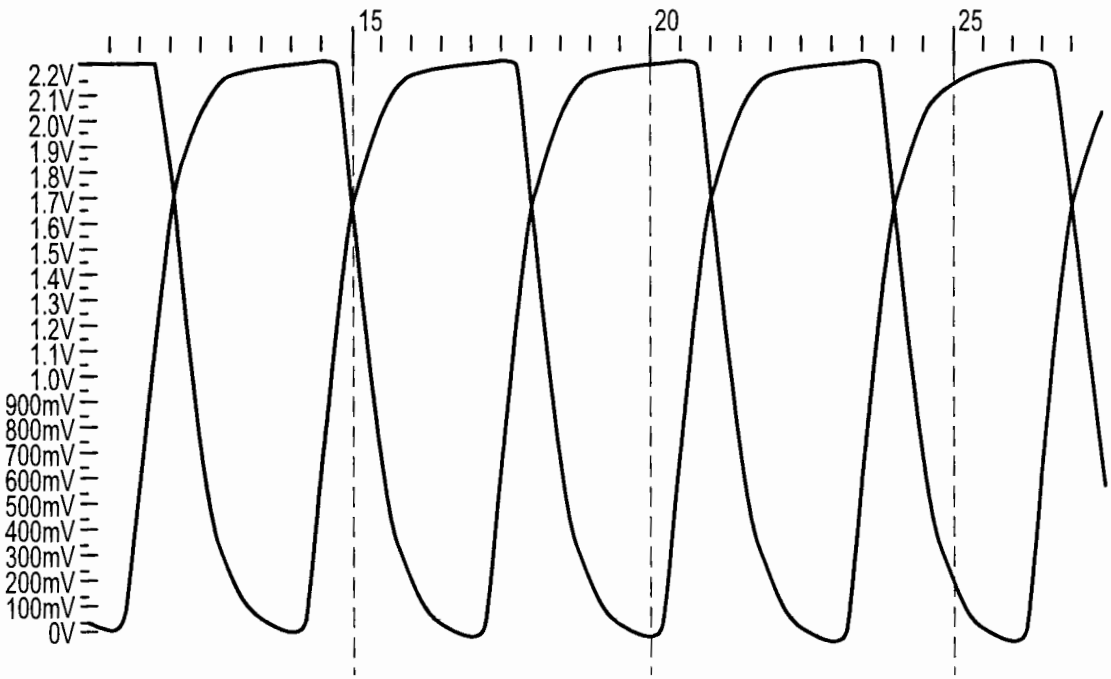

15
20
25
2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V

FIG.8

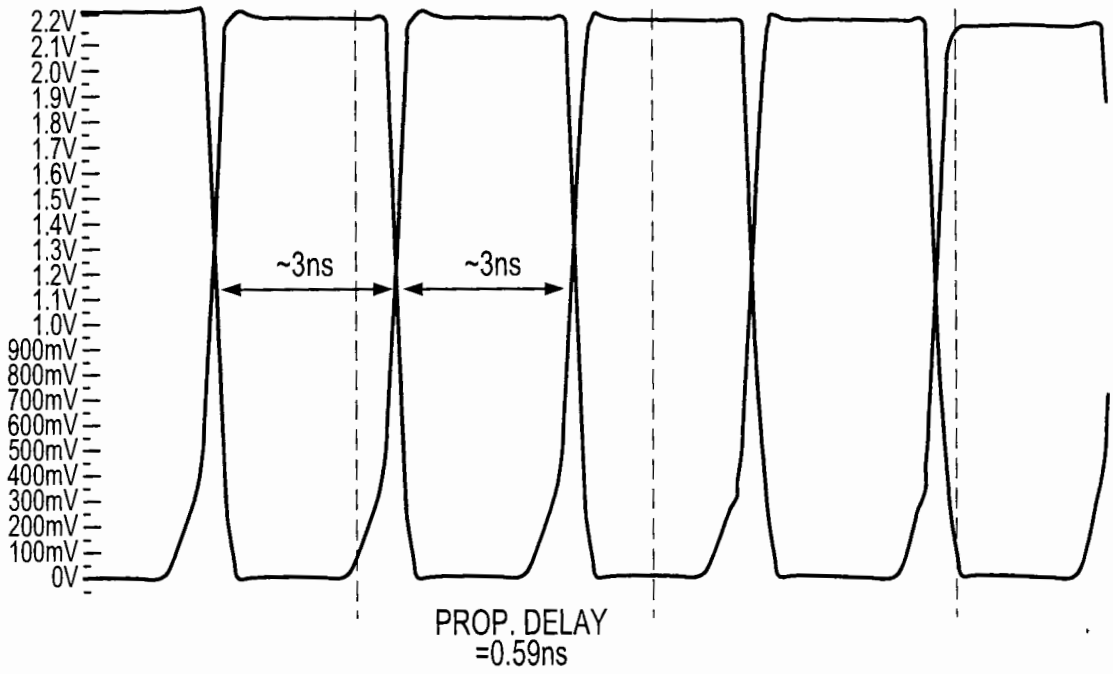

2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V
~3ns
~3ns
PROP. DELAY
=0.59ns

FIG.9

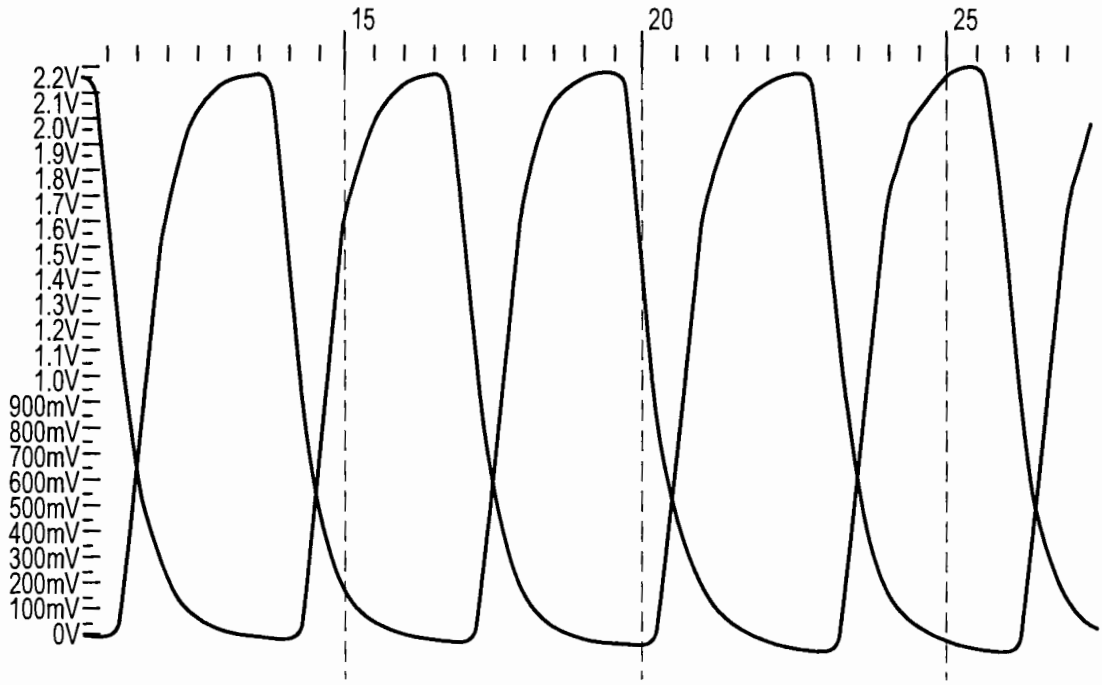

15
20
25
2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V

FIG.10

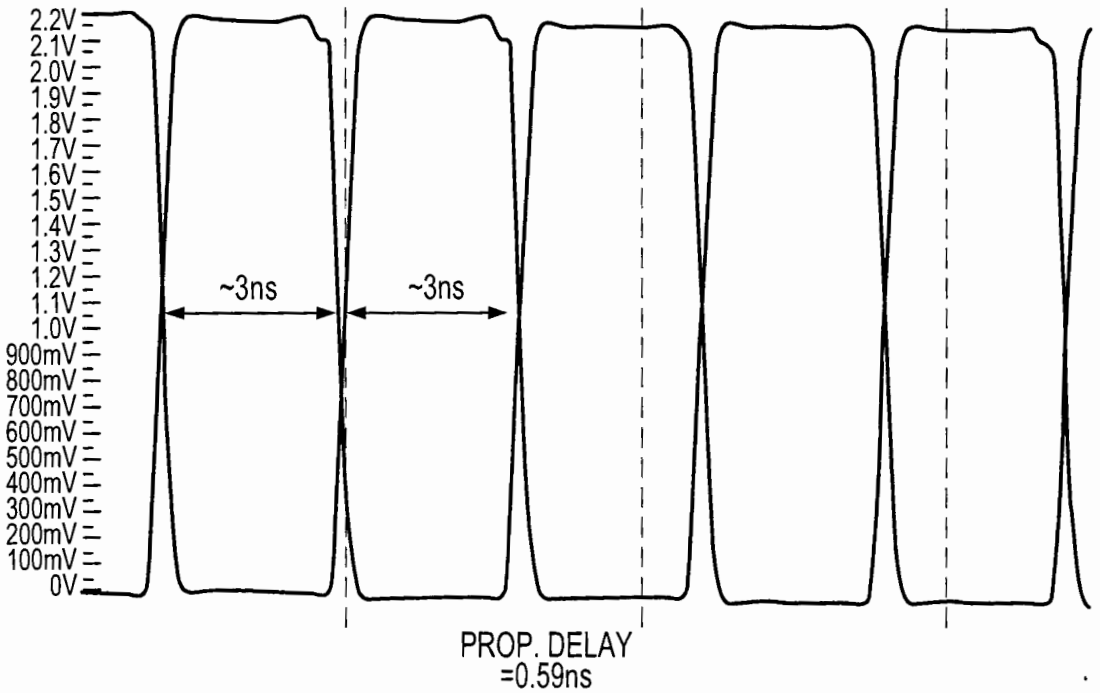

2.2V
2.1V
2.0V
1.9V
1.8V
1.7V
1.6V
1.5V
1.4V
1.3V
1.2V
1.1V
1.0V
900mV
800mV
700mV
600mV
500mV
400mV
300mV
200mV
100mV
0V
~3ns
~3ns
PROP. DELAY
=0.59ns

FIG.11

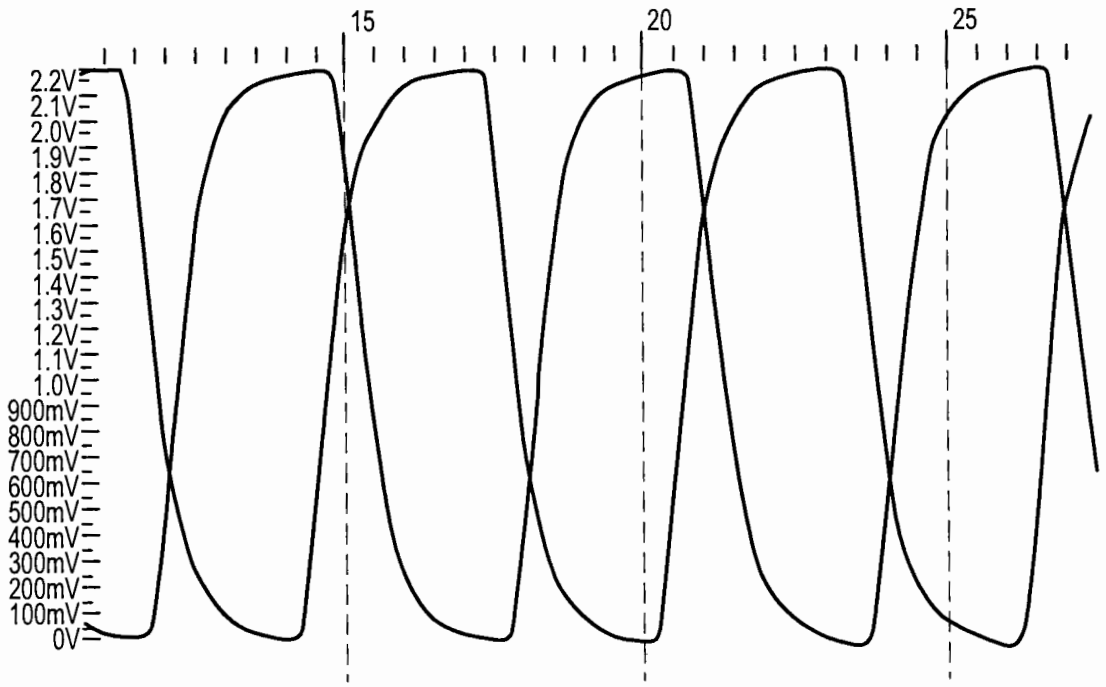
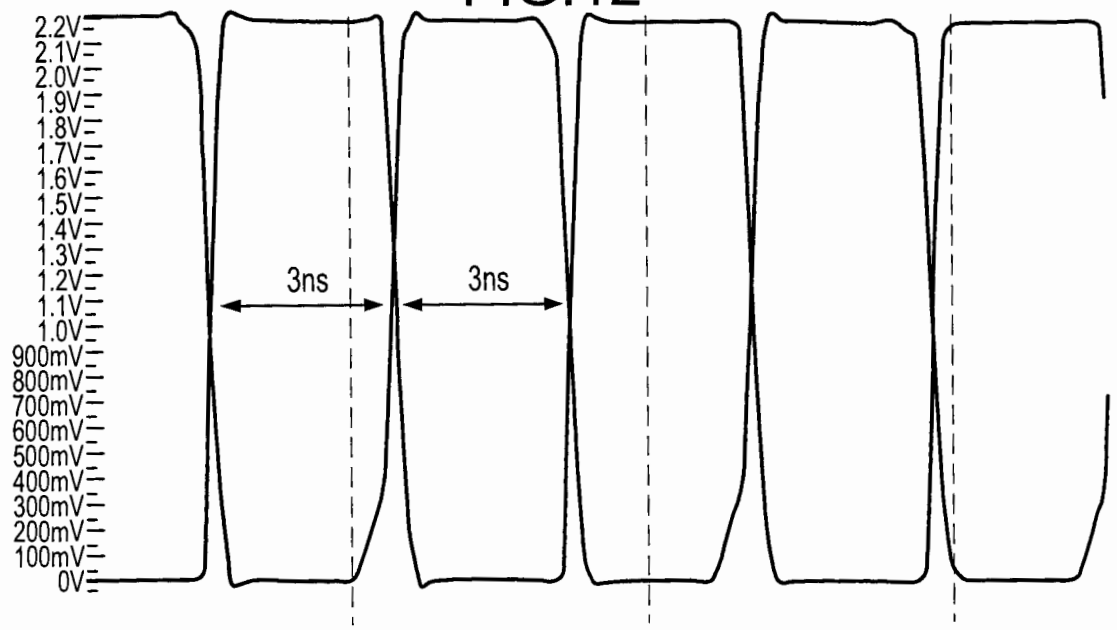


FIG.12



PROP. DELAY
=0.56ns
&
0.59ns

FIG.13

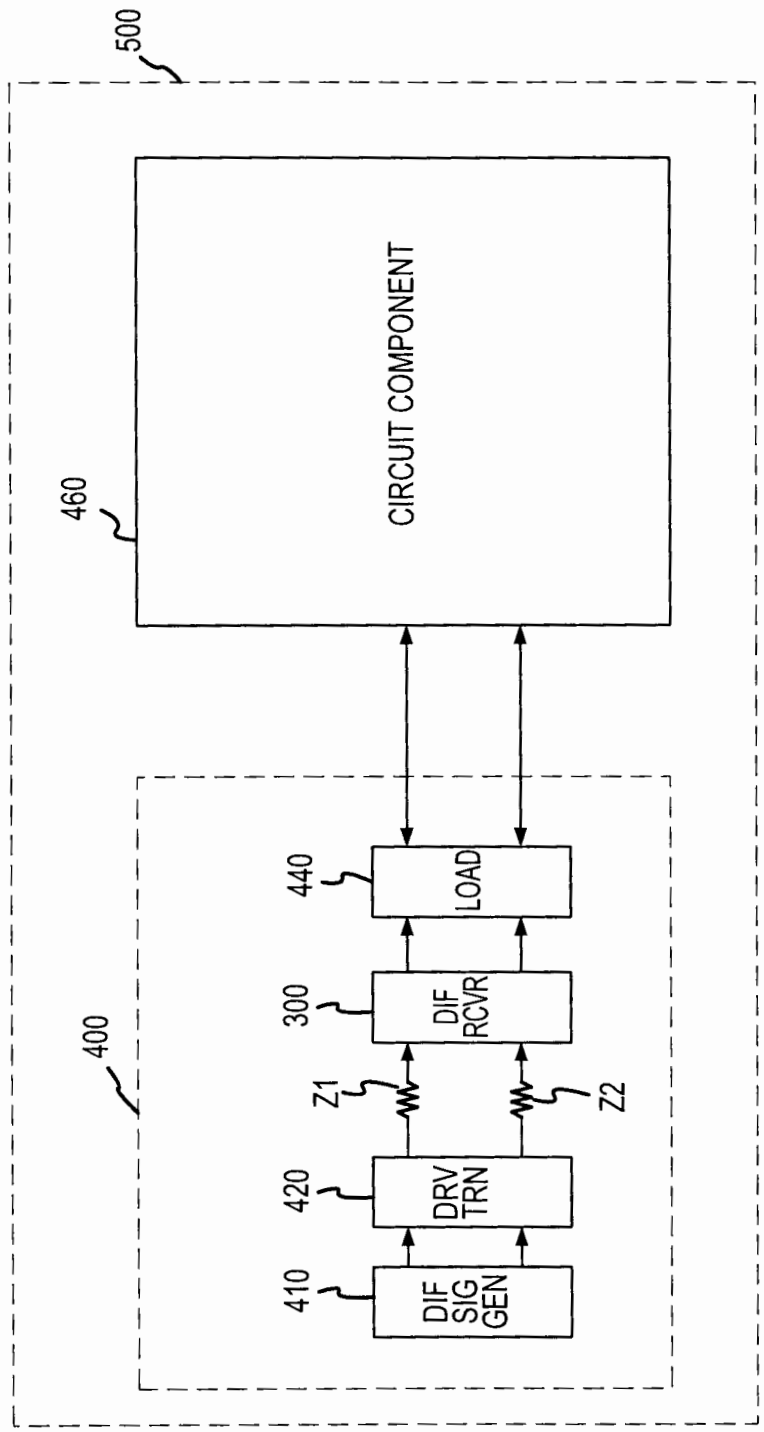

500
460
CIRCUIT COMPONENT
400
440
LOAD
300
DIF RCVR
Z1
Z2
420
DRV TRN
410
DIF SIG GEN

FIG.14