FIG. 1

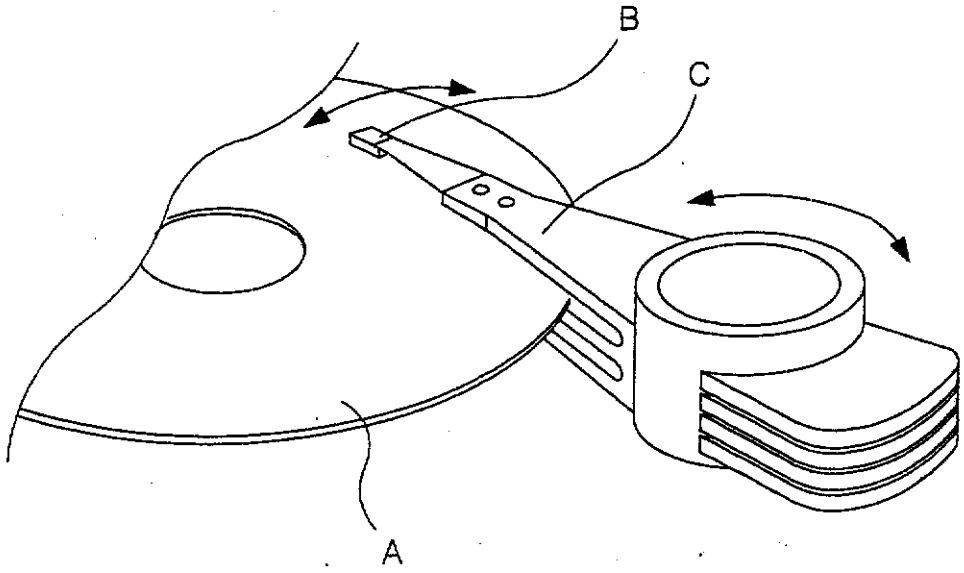


FIG. 2

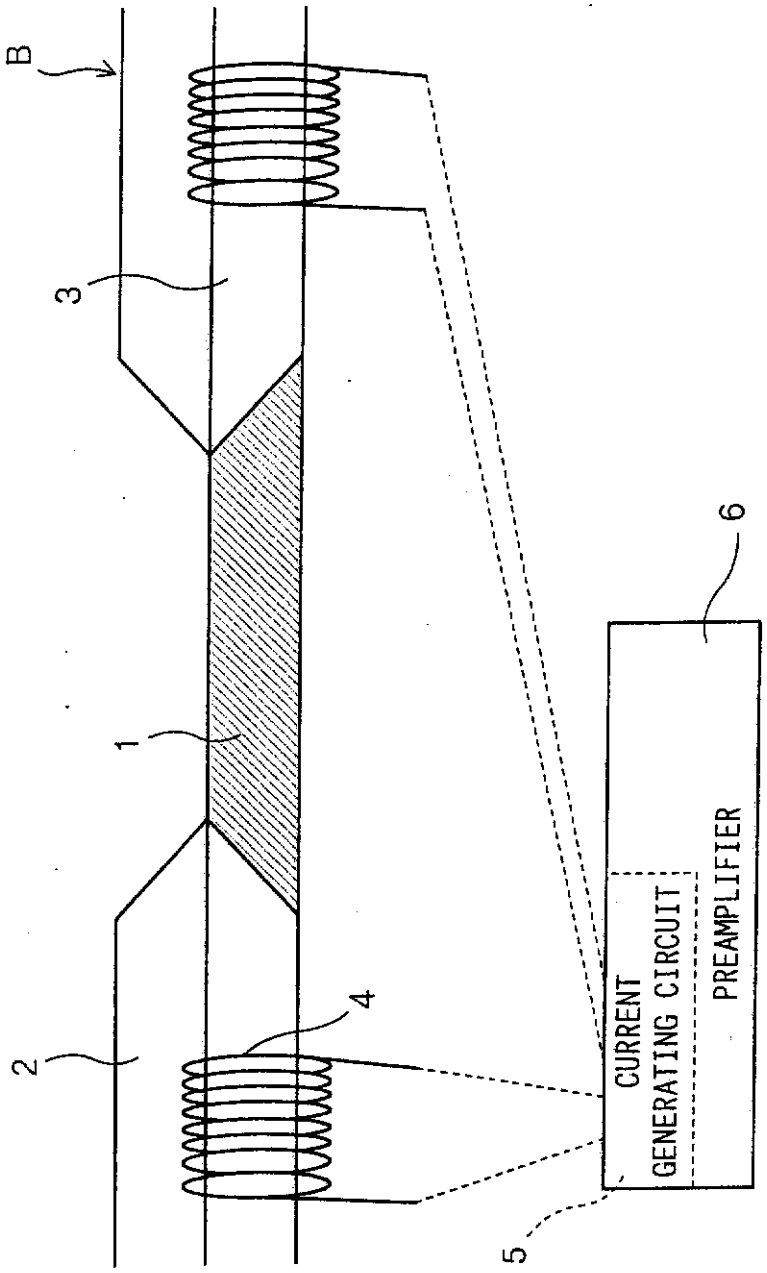


FIG. 3

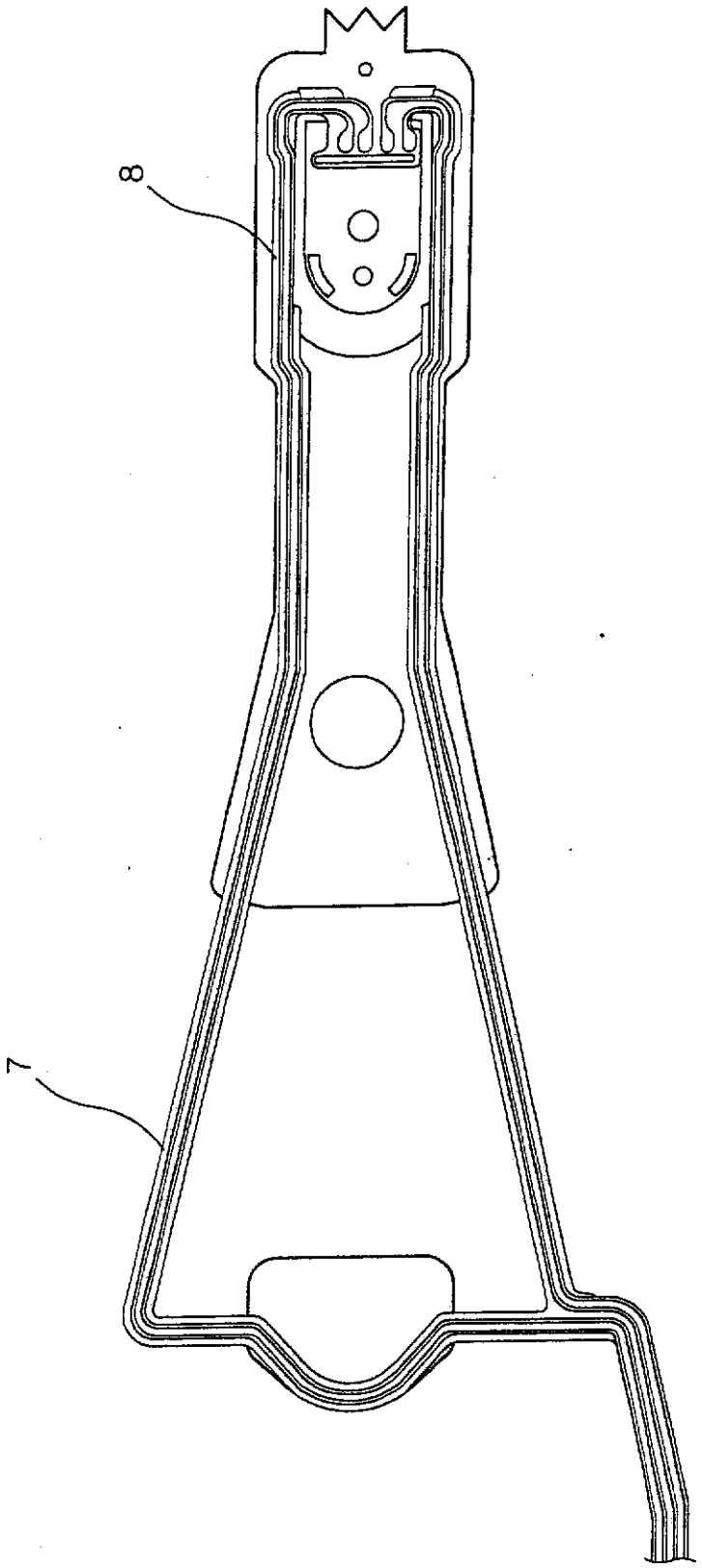
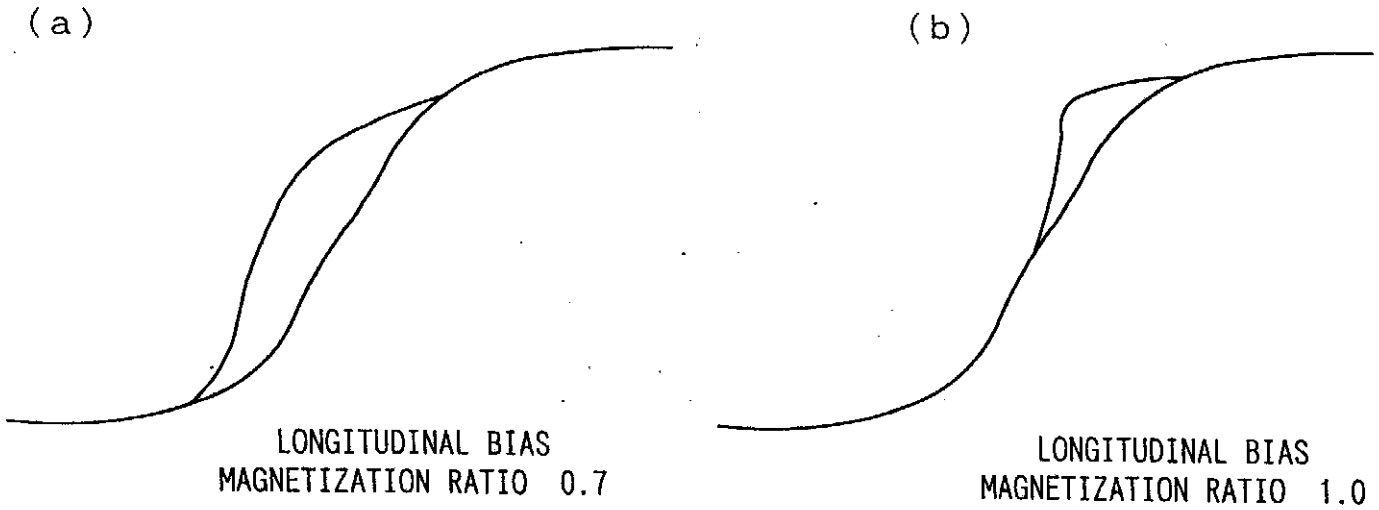


FIG. 4



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FIG. 5

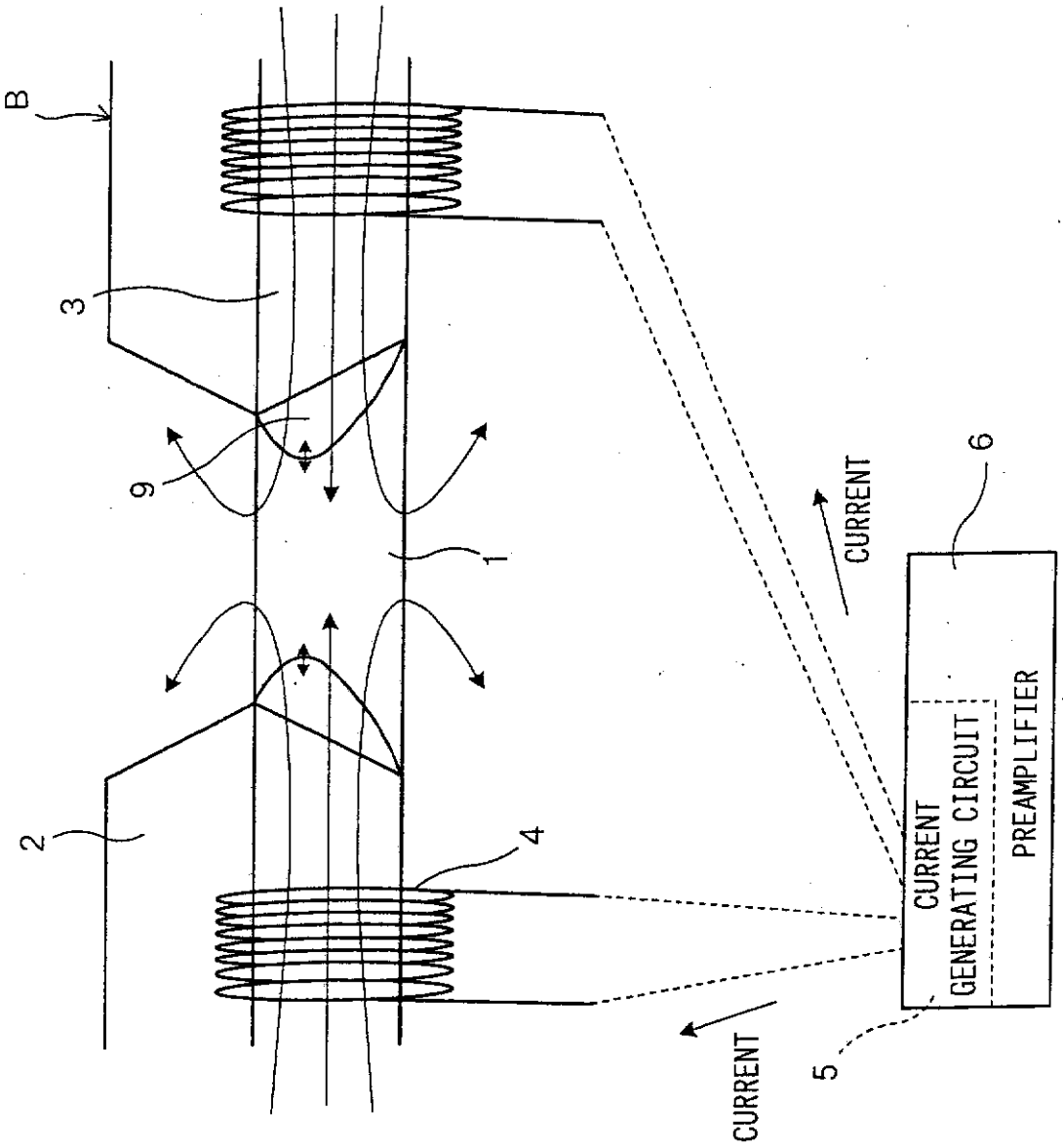

B
3
9
1
2
4
CURRENT
CURRENT
6
CURRENT GENERATING CIRCUIT
PREAMPLIFIER
5

FIG. 6

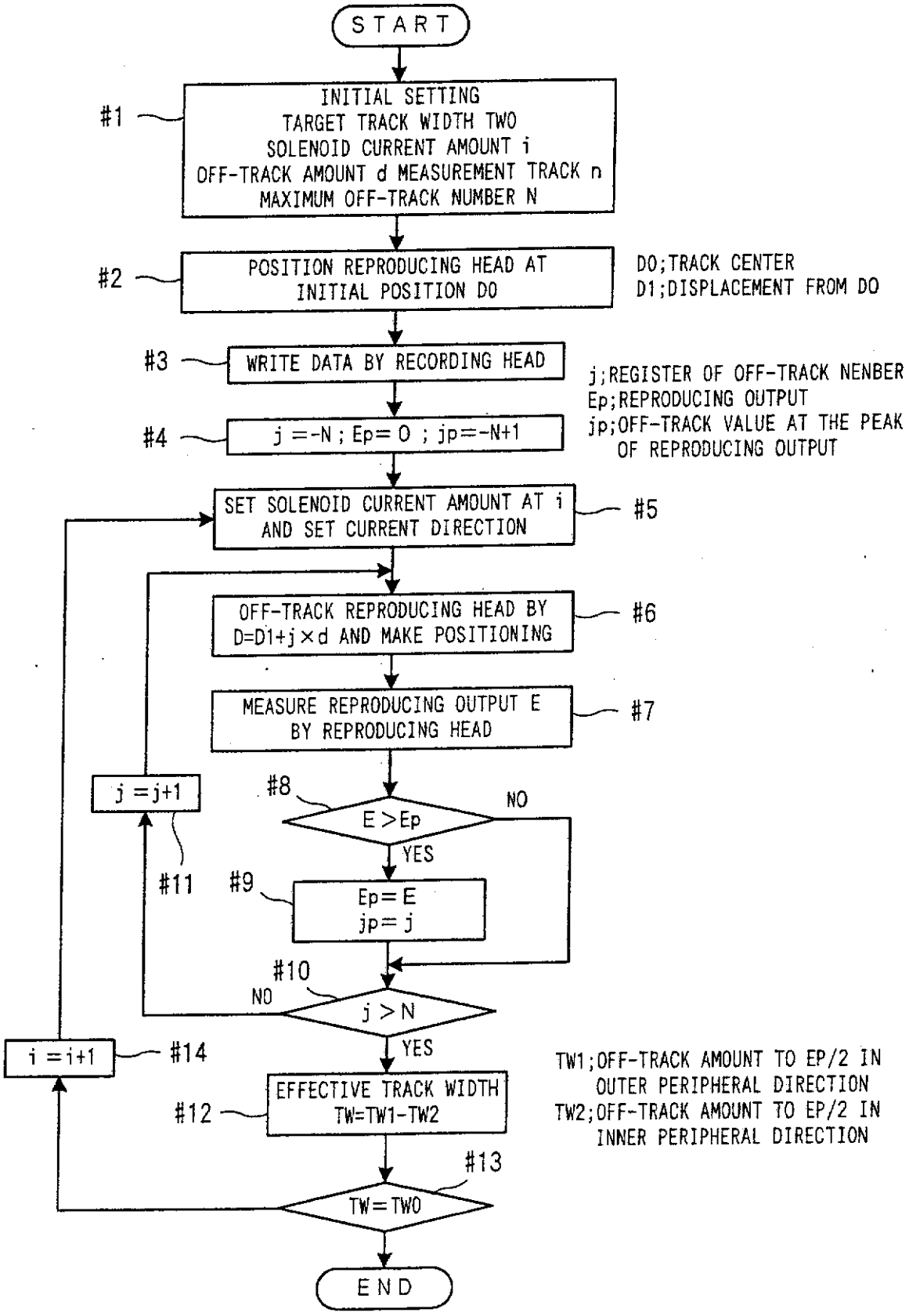
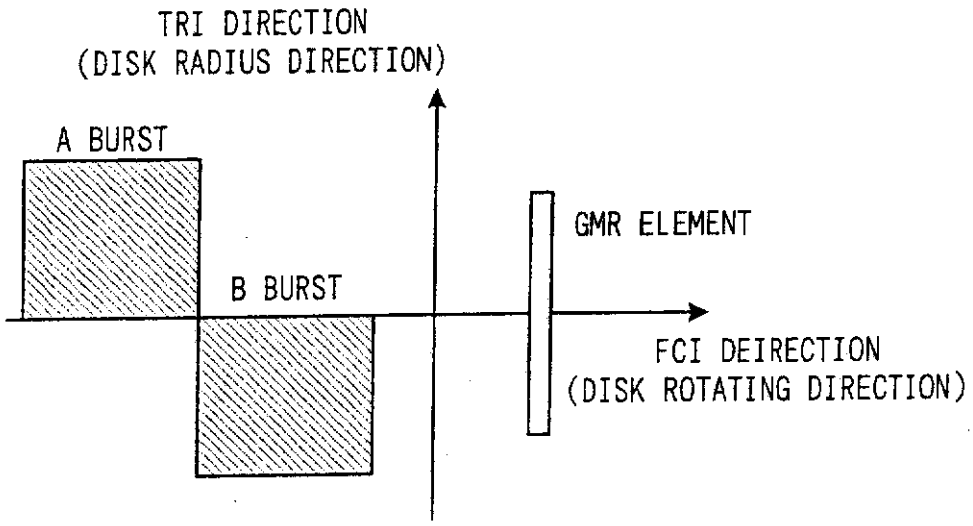

START
#1
INITIAL SETTING
TARGET TRACK WIDTH TWO
SOLENOID CURRENT AMOUNT i
OFF-TRACK AMOUNT d MEASUREMENT TRACK n
MAXIMUM OFF-TRACK NUMBER N
#2
POSITION REPRODUCING HEAD AT INITIAL POSITION DO
DO;TRACK CENTER
D1;DISPLACEMENT FROM DO
#3
WRITE DATA BY RECORDING HEAD
j;REGISTER OF OFF-TRACK NENBER
Ep;REPRODUCING OUTPUT
jp;OFF-TRACK VALUE AT THE PEAK OF REPRODUCING OUTPUT
#4
j=-N ; Ep=0 ; jp=-N+1
#5
SET SOLENOID CURRENT AMOUNT AT i AND SET CURRENT DIRECTION
#6
OFF-TRACK REPRODUCING HEAD BY D=D1+j×d AND MAKE POSITIONING
#7
MEASURE REPRODUCING OUTPUT E BY REPRODUCING HEAD
#8
E>Ep
NO
YES
#9
Ep=E
jp=j
#10
j>N
NO
YES
#11
j=j+1
#12
EFFECTIVE TRACK WIDTH TW=TW1-TW2
#13
TW=TW0
#14
i=i+1
TW1;OFF-TRACK AMOUNT TO EP/2 IN OUTER PERIPHERAL DIRECTION
TW2;OFF-TRACK AMOUNT TO EP/2 IN INNER PERIPHERAL DIRECTION
END

FIG. 7

(a)


TRI DIRECTION
(DISK RADIUS DIRECTION)
A BURST
B BURST
GMR ELEMENT
FCI DEIRECTION
(DISK ROTATING DIRECTION)

(b)

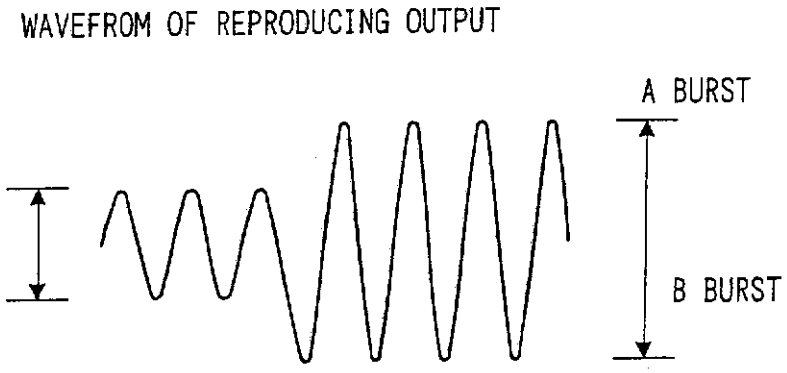
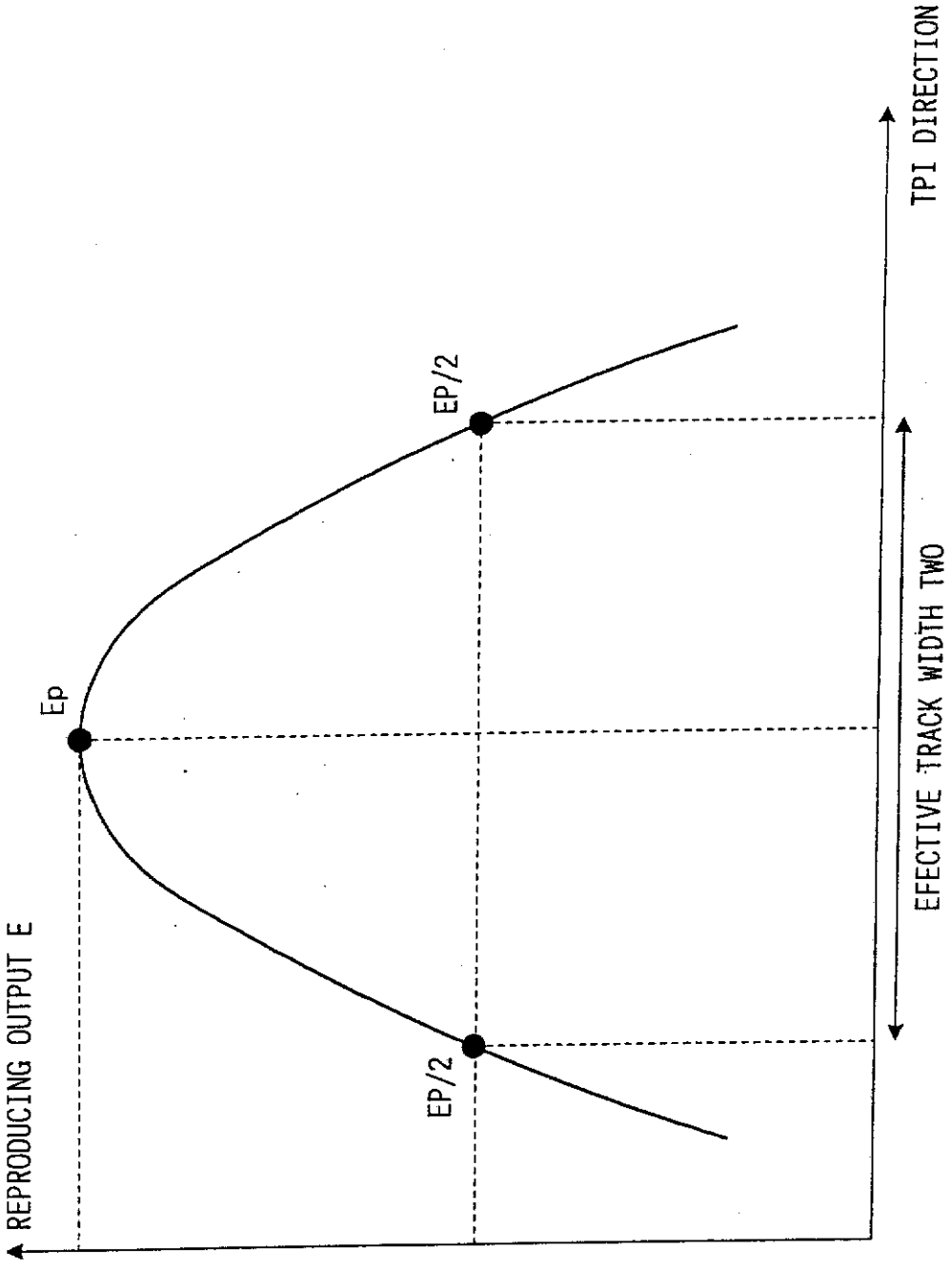

WAVEFROM OF REPRODUCING OUTPUT
A BURST
B BURST

FIG. 8


REPRODUCING OUTPUT E
Ep
EP/2
EP/2
TPI DIRECTION
EFECTIVE TRACK WIDTH TWO