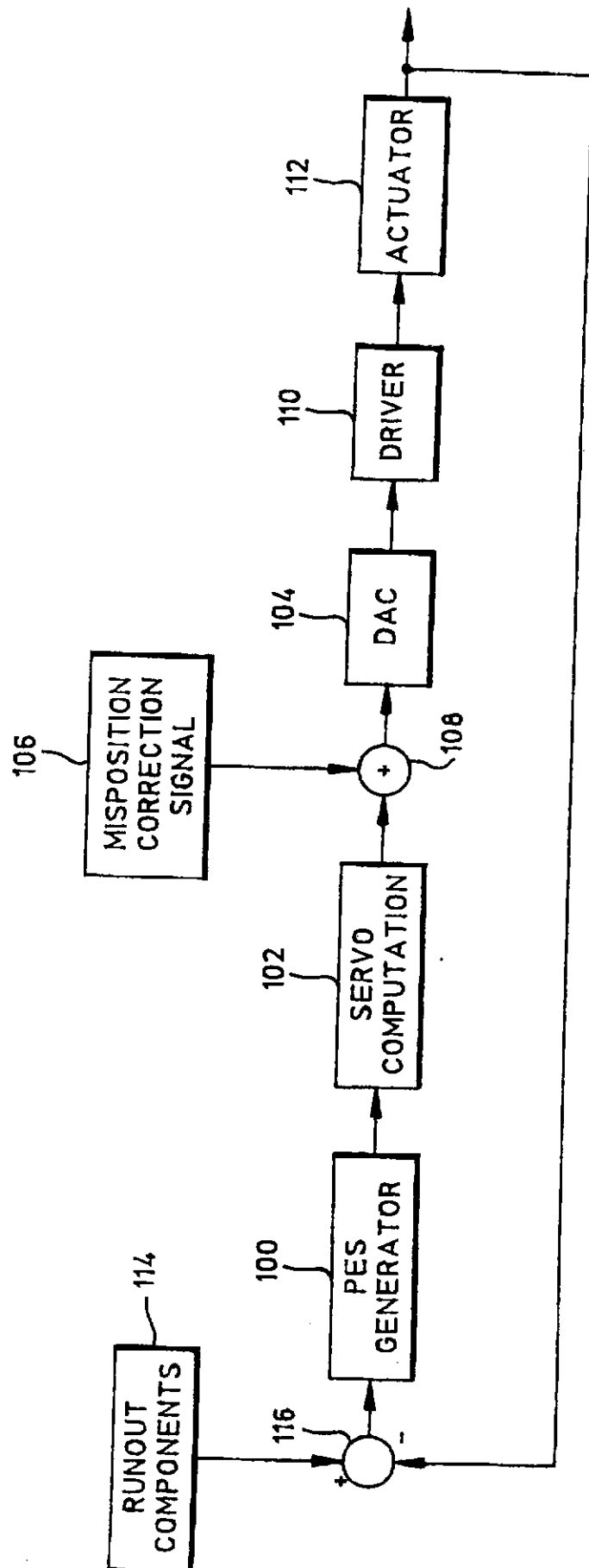




HEAD POSITION

FIG. 1
(PRIOR ART)

FIG. 2

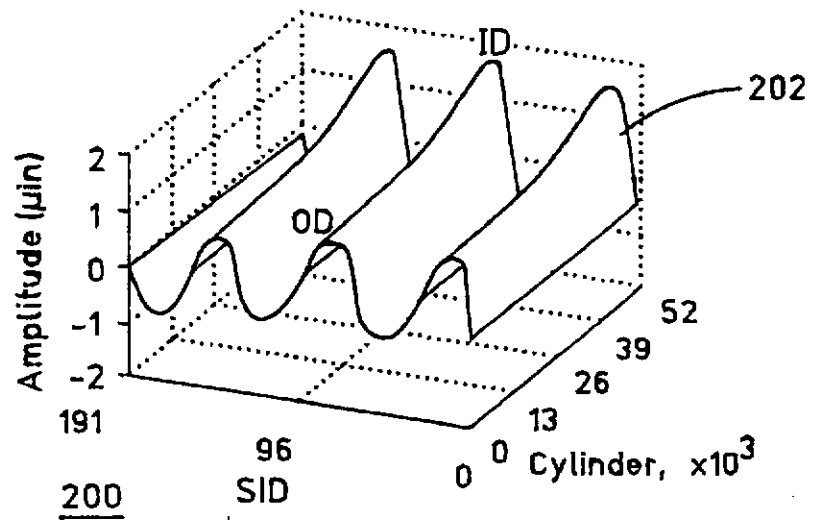
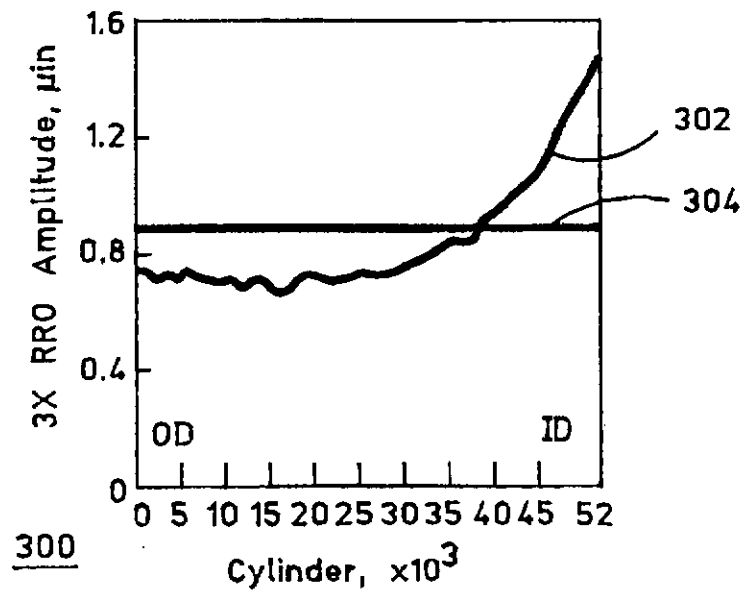
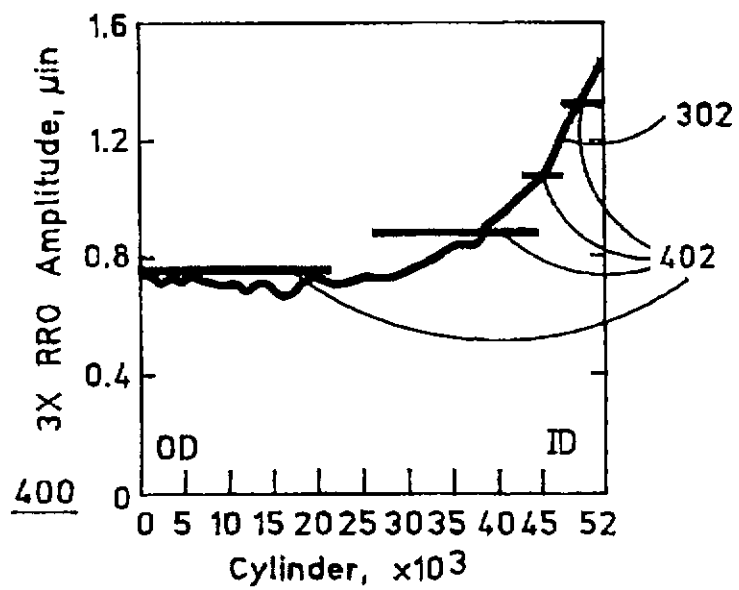
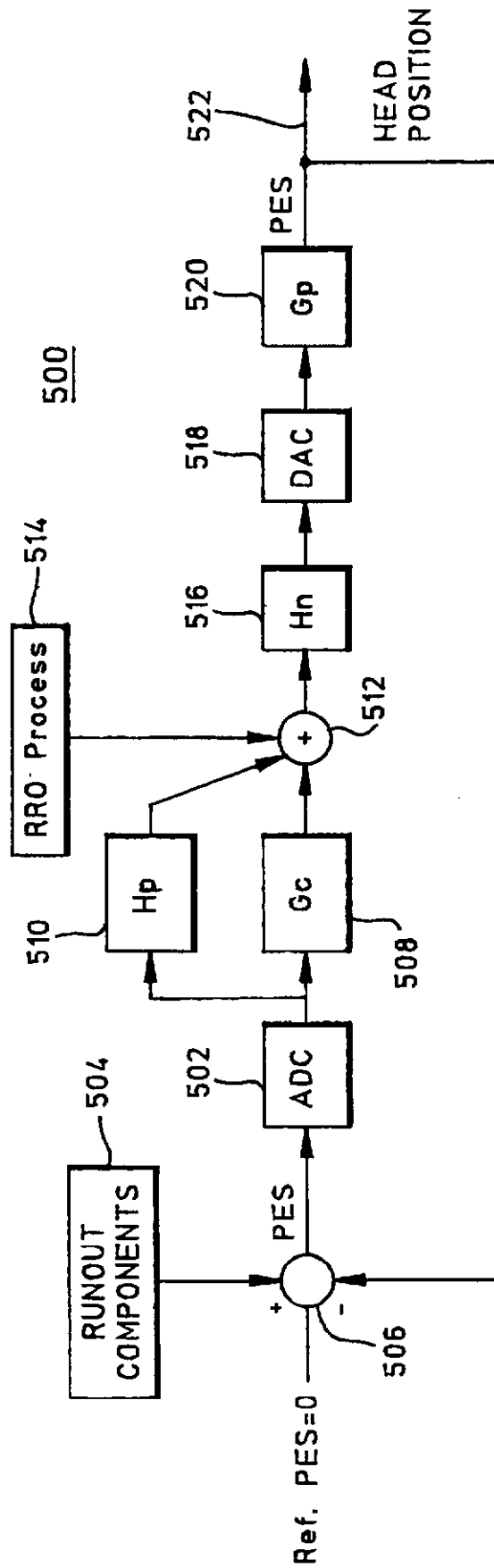
FIG. 3
(PRIOR ART)FIG. 4
(PRIOR ART)

FIG. 5



$$D_{rr0}(r,s) = \begin{cases} A_i(r) \cos\left(j \frac{2\pi}{\text{total_sectors}} s\right) + \\ B_i(r) \sin\left(j \frac{2\pi}{\text{total_sectors}} s\right) \end{cases}$$

524

FIG. 6

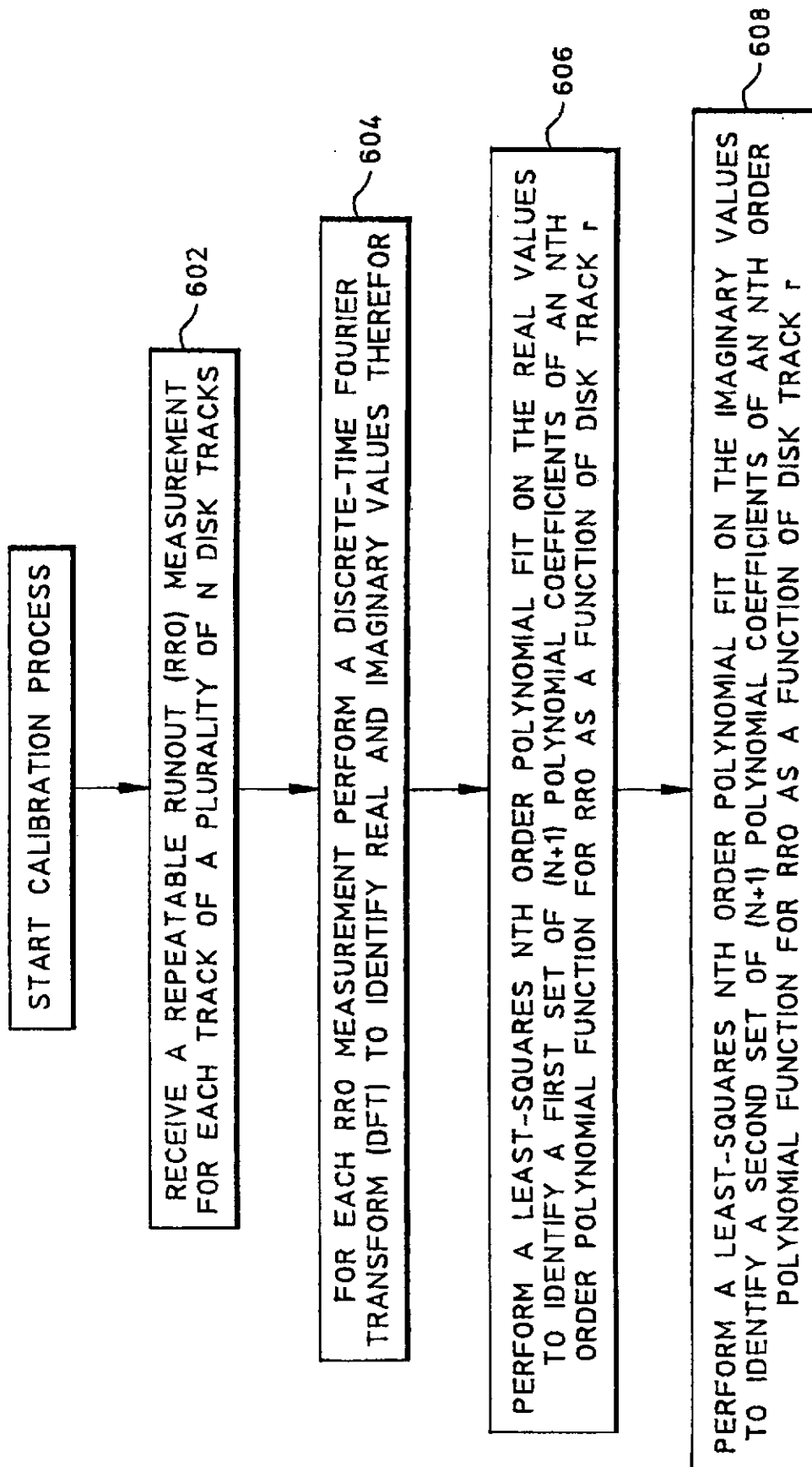
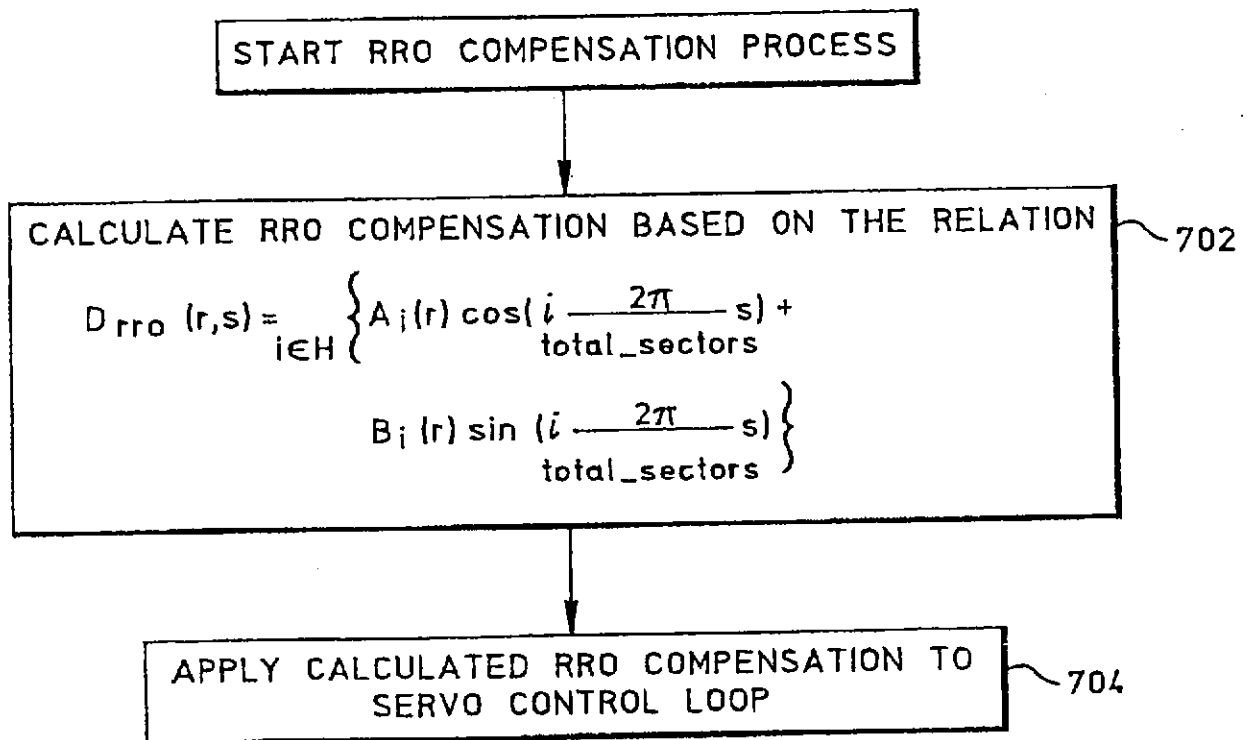


FIG. 7



FOURIER TRANSFORM RESULTS			
HARMONIC	TRACK NO.	REAL VALUE	IMAGINARY VALUE
1X	1 (OD)	V_1	V_2
	2	V_3	V_4
	$\vdots$	$\vdots$	$\vdots$
	N (ID)	V_5	V_6
2X	1 (OD)	V_7	V_8
	2	V_9	V_{10}
	$\vdots$	$\vdots$	$\vdots$
	N (ID)	V_{11}	V_{12}
3X	$\vdots$	$\vdots$	$\vdots$
$\vdots$	$\vdots$	$\vdots$	$\vdots$
l	1 (OD)	V_{13}	V_{14}
	2	V_{15}	V_{16}
	$\vdots$	$\vdots$	$\vdots$
	N (ID)	V_{17}	V_{18}

FIG. 8

800

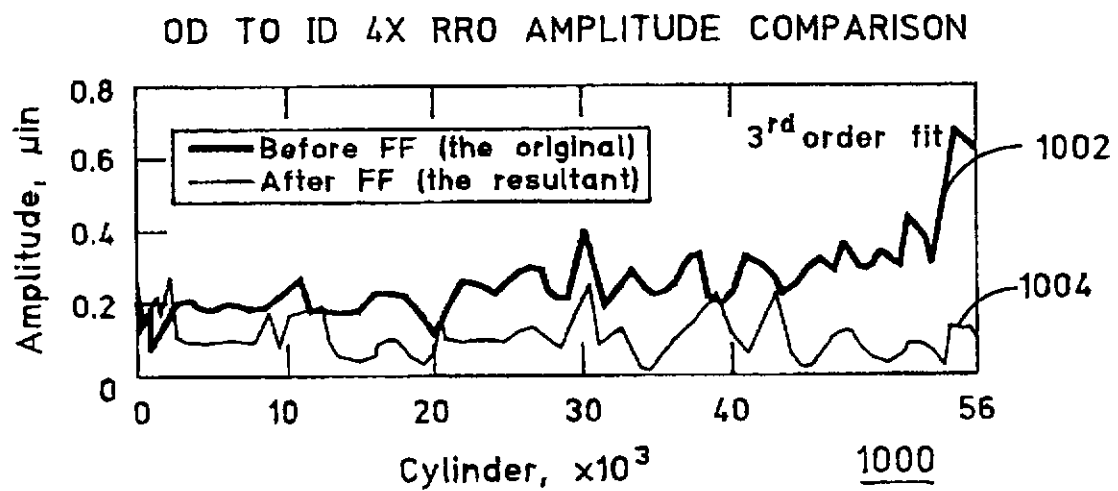


FIG. 10

HARMONIC	COMPONENT	POLYNOMIAL COEFFICIENTS			
		n^{TH} ORDER	$(n-1)^{\text{TH}}$ ORDER	...	0^{TH} ORDER
1X	REAL	a_{1_n}	$a_{1_}\{n-1\}$	...	a_{1_0}
	IMAGINARY	p_{1_n}	$p_{1_}\{n-1\}$	...	p_{1_0}
2X	REAL	a_{2_n}	$a_{2_}\{n-1\}$	...	a_{2_0}
	IMAGINARY	p_{2_n}	$p_{2_}\{n-1\}$	...	p_{2_0}
3X	REAL	a_{3_n}	$a_{3_}\{n-1\}$	...	a_{3_0}
	IMAGINARY	p_{3_n}	$p_{3_}\{n-1\}$	...	p_{3_0}
⋮	...	...	...	...	...
	...	...	...	...	...
i	REAL	a_{i_n}	$a_{i_}\{n-1\}$	...	a_{i_0}
	IMAGINARY	p_{i_n}	$p_{i_}\{n-1\}$	...	p_{i_0}

FIG. 9