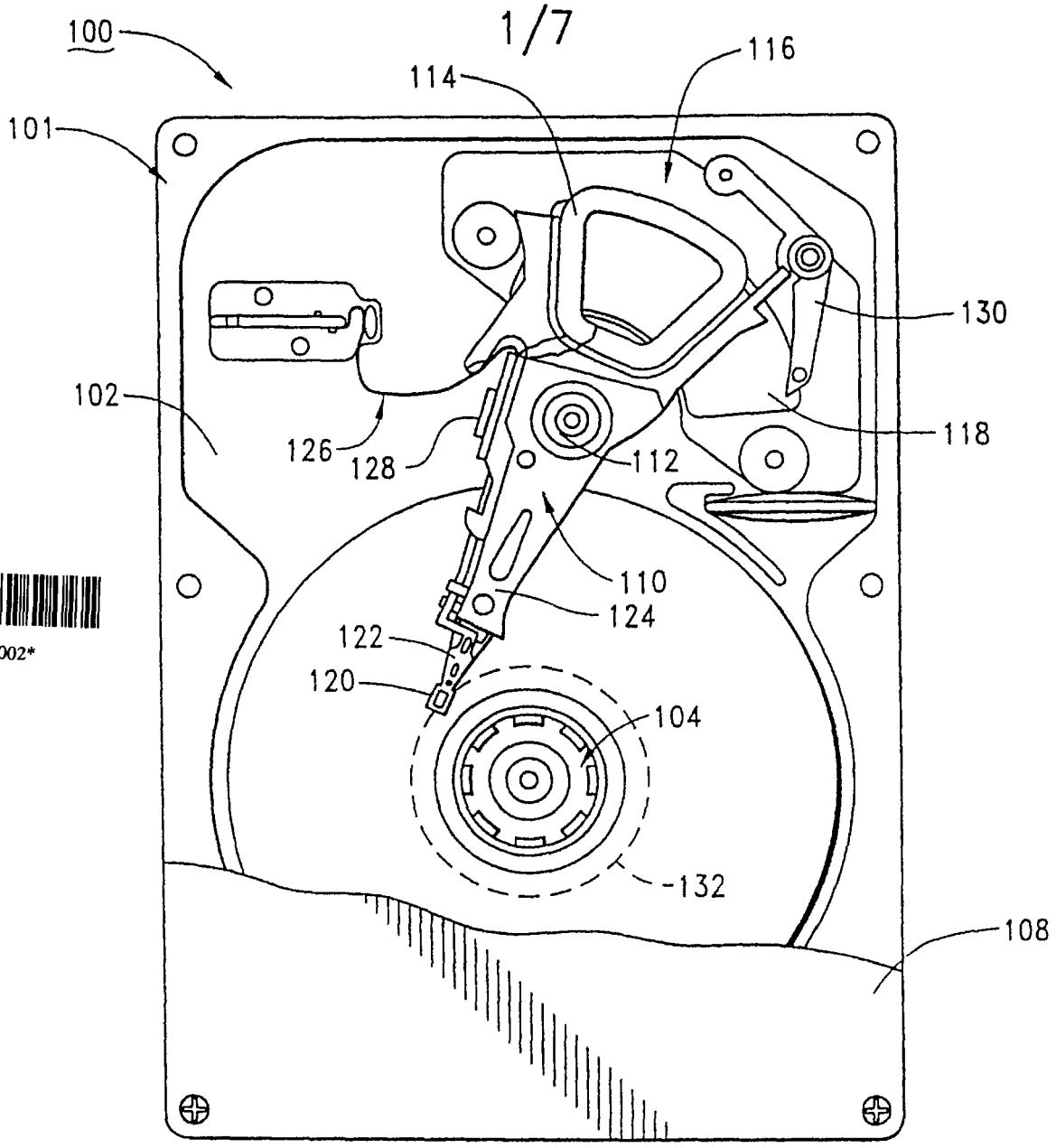


G00002

FIG. 1

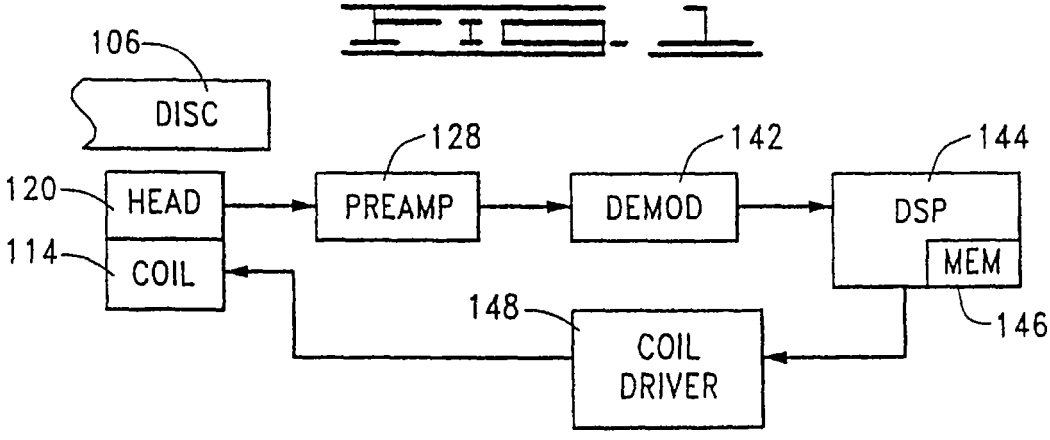
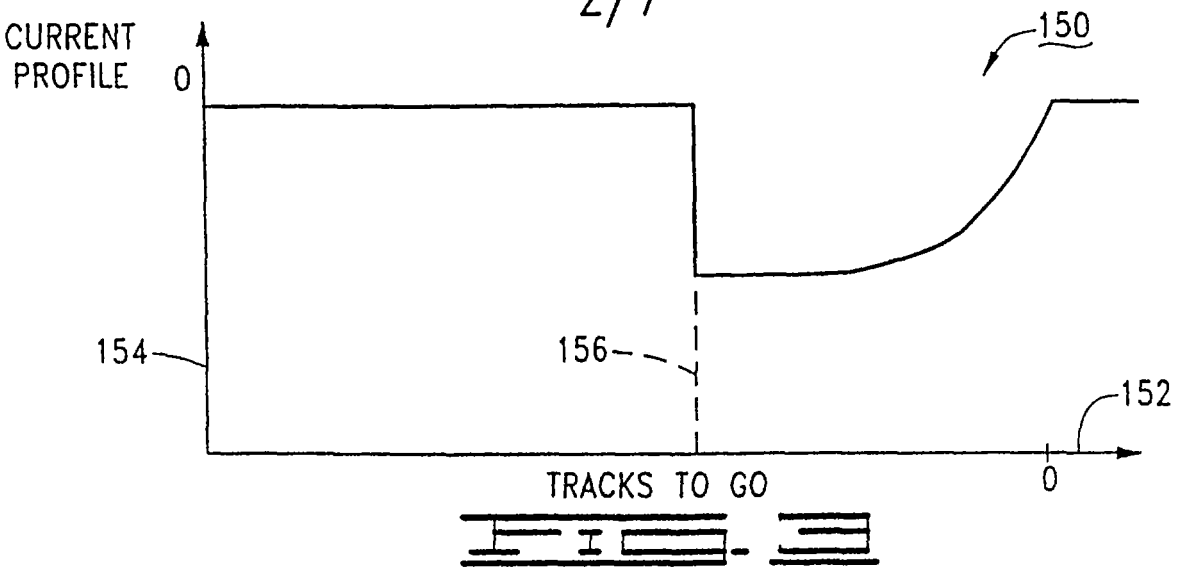
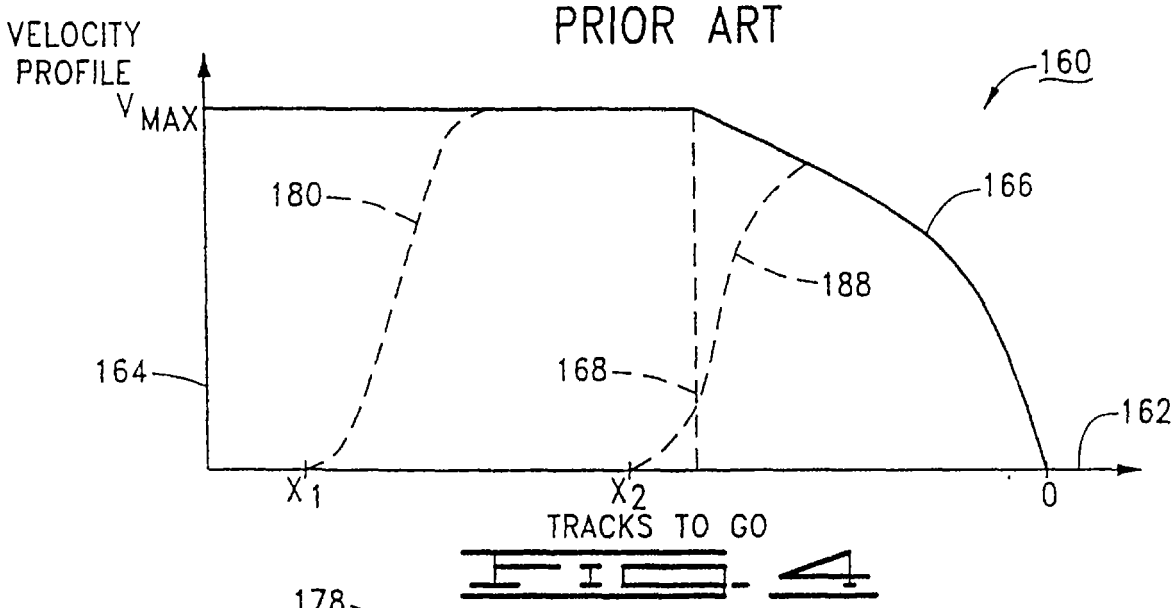


FIG. 2

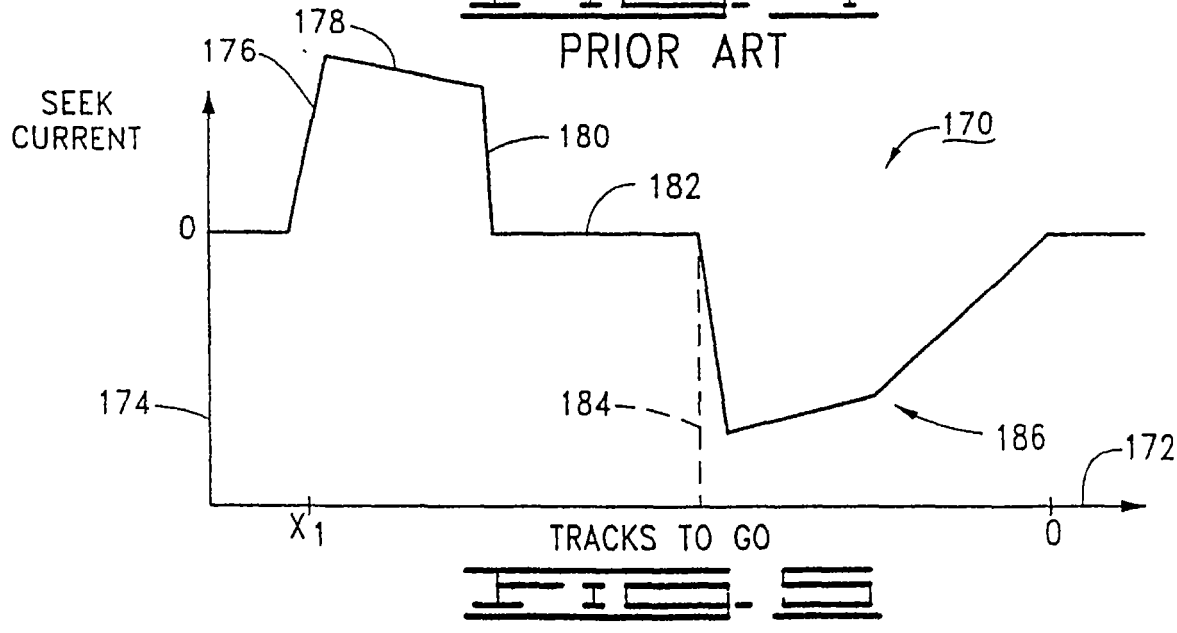
163163



PRIOR ART



PRIOR ART



PRIOR ART

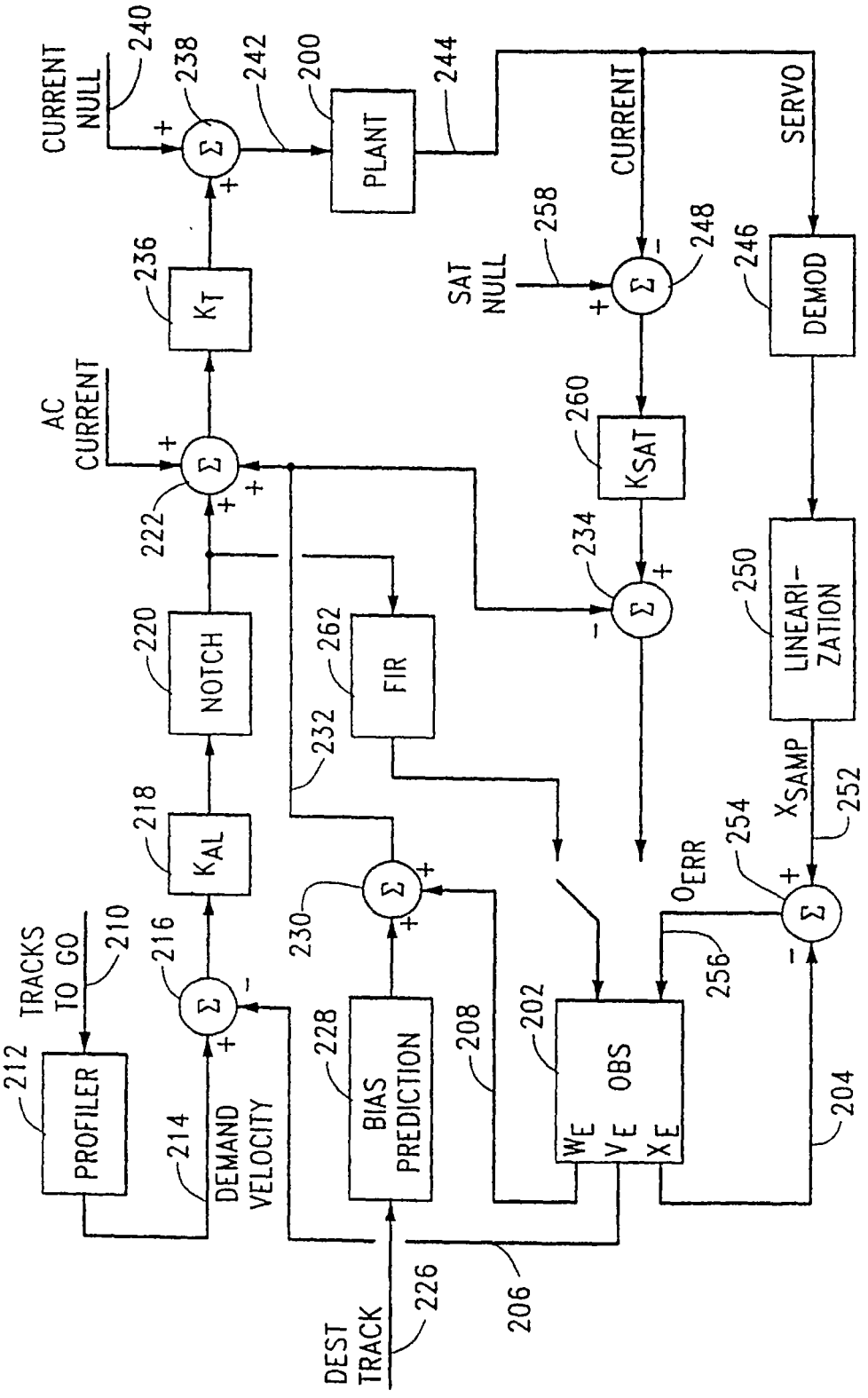


FIG. 3
PRIOR ART

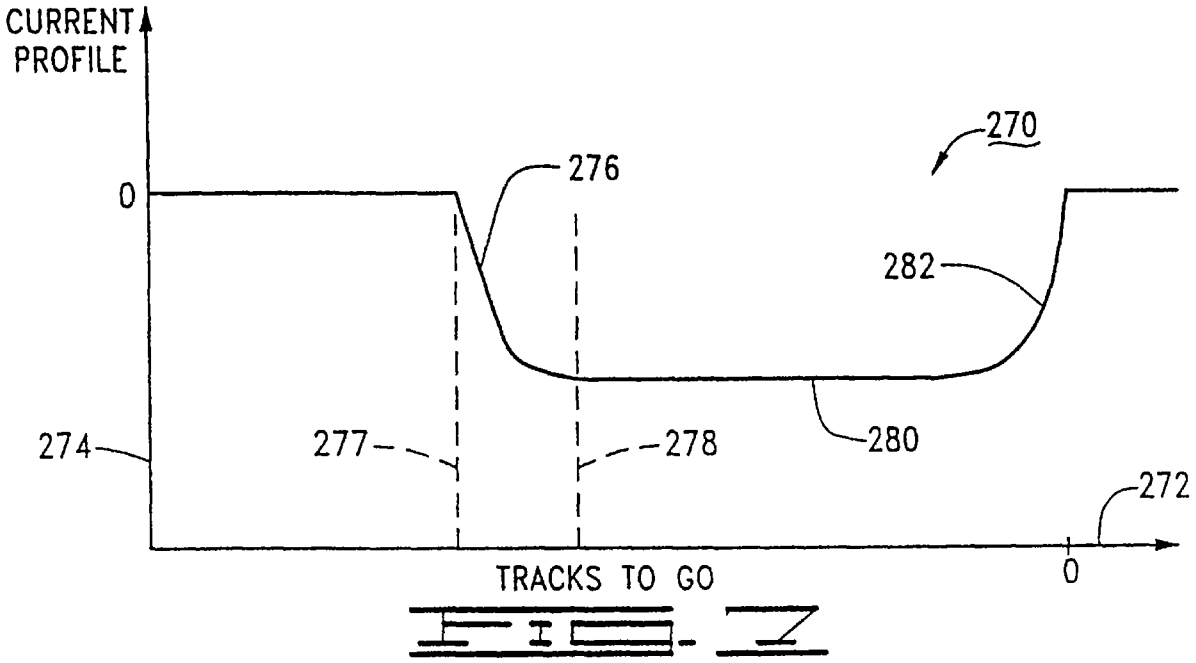

CURRENT PROFILE
0
276
270
282
274
277
278
280
272
TRACKS TO GO
0

FIG. 7

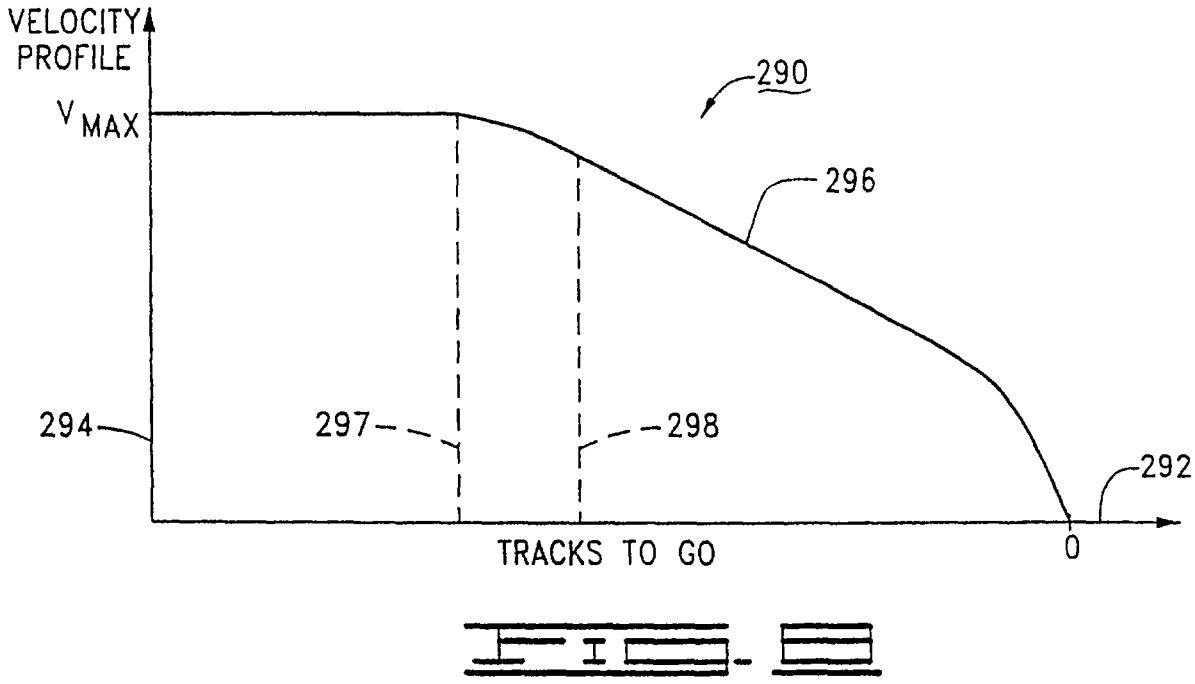
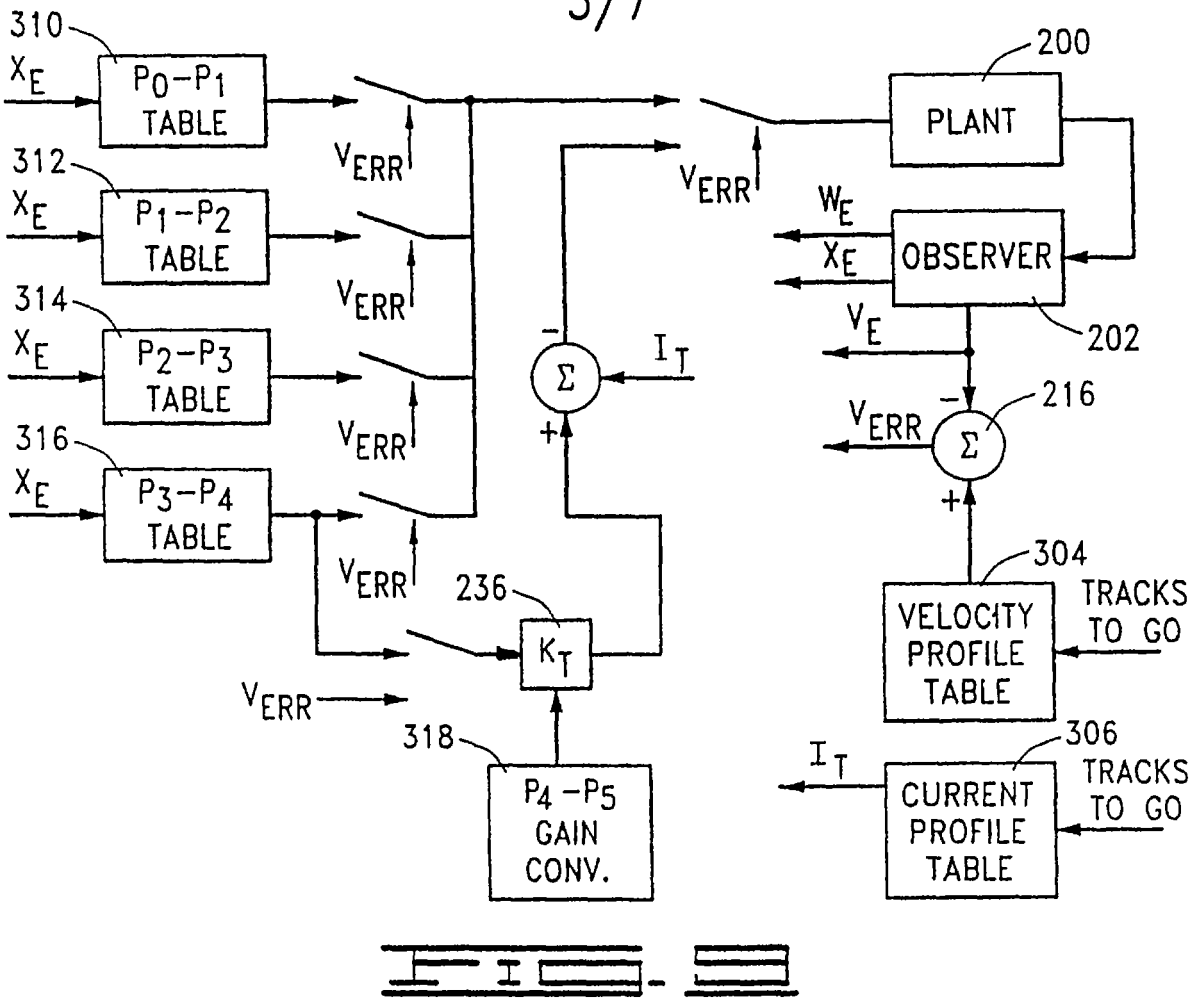
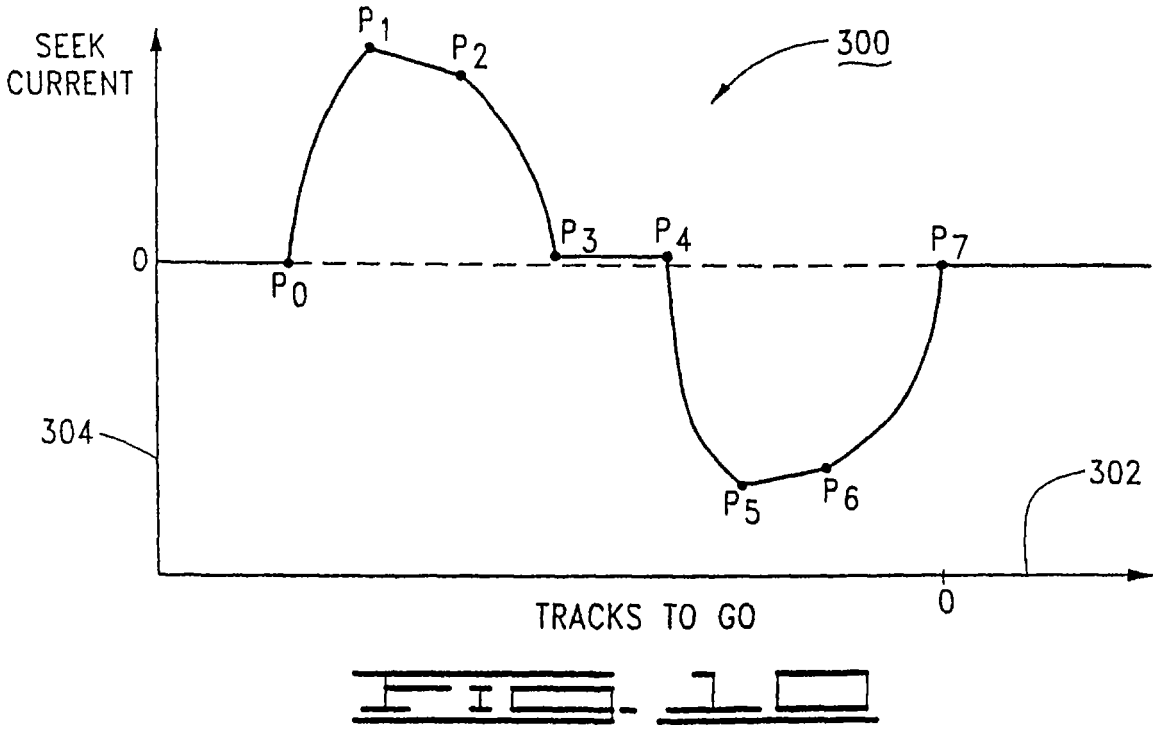
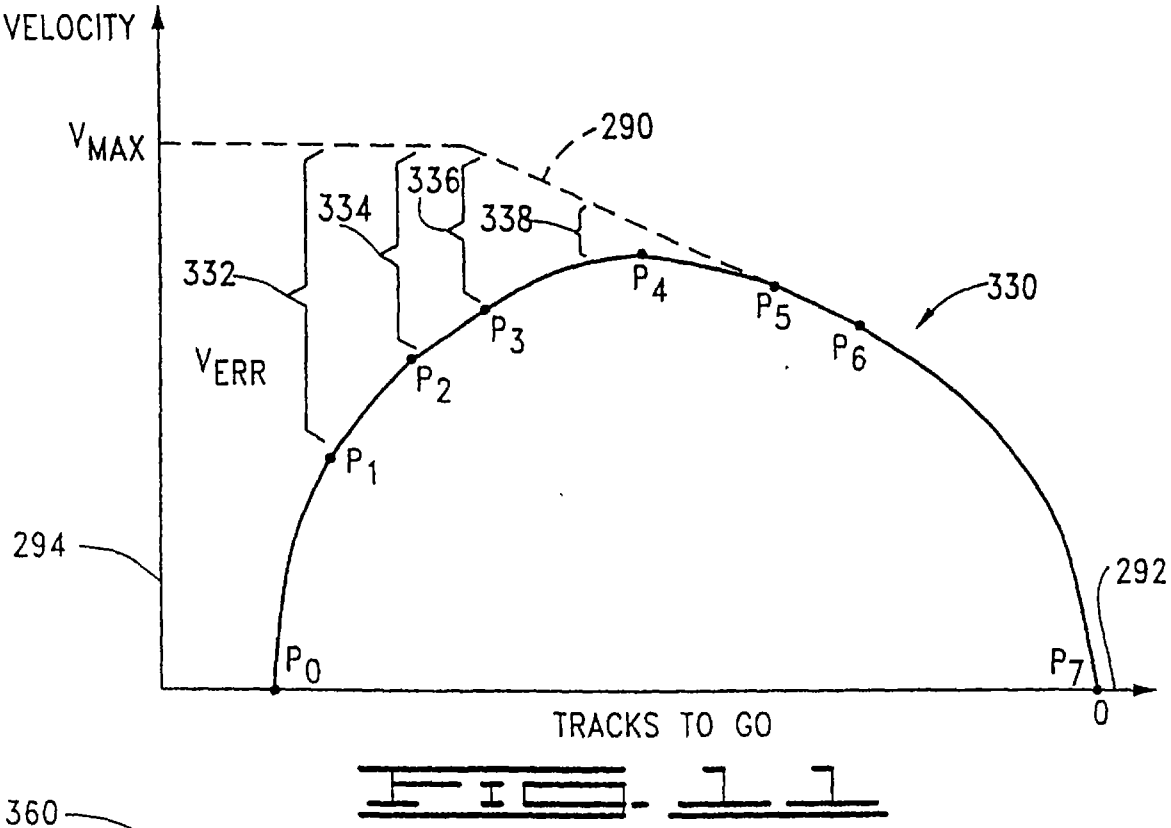
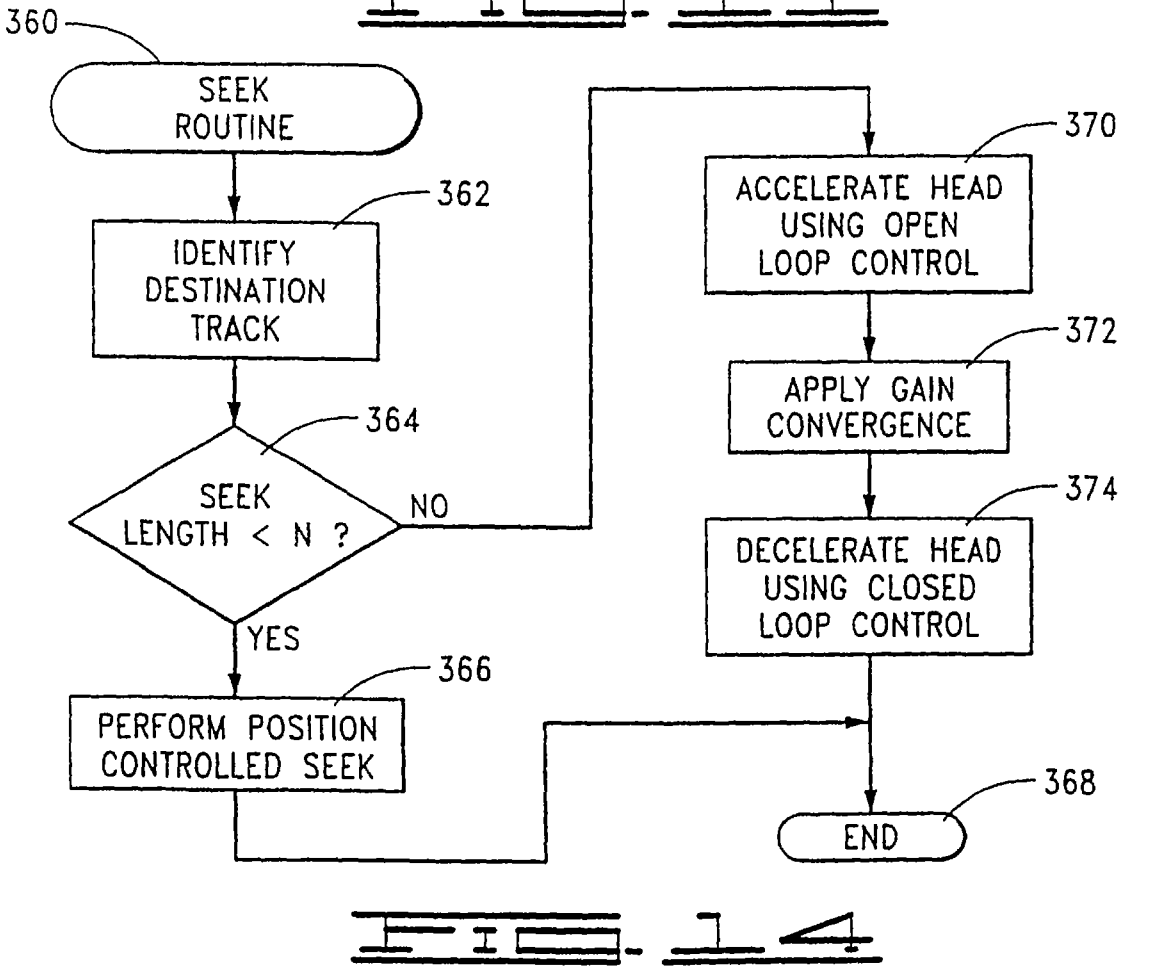

VELOCITY PROFILE
V_{MAX}
290
296
294
297
298
292
TRACKS TO GO
0

FIG. 8


310
X_E
P_0-P_1 TABLE
312
X_E
P_1-P_2 TABLE
314
X_E
P_2-P_3 TABLE
316
X_E
P_3-P_4 TABLE
V_{ERR}
V_{ERR}
V_{ERR}
V_{ERR}
V_{ERR}
V_{ERR}
I_T
236
K_T
318
P_4-P_5 GAIN CONV.
200
PLANT
W_E
X_E
OBSERVER
202
V_E
216
304
VELOCITY PROFILE TABLE
TRACKS TO GO
306
I_T
CURRENT PROFILE TABLE
TRACKS TO GO


SEEK CURRENT
P_1
P_2
300
P_3
P_4
P_7
0
P_0
304
P_5
P_6
302
TRACKS TO GO
0


VELOCITY
V_{MAX}
290
336
334
338
332
330
V_{ERR}
P_4
P_5
P_3
P_6
P_2
P_1
294
292
P_0
P_7
0
TRACKS TO GO


360
SEEK ROUTINE
362
IDENTIFY DESTINATION TRACK
364
SEEK LENGTH < N ?
NO
YES
366
PERFORM POSITION CONTROLLED SEEK
370
ACCELERATE HEAD USING OPEN LOOP CONTROL
372
APPLY GAIN CONVERGENCE
374
DECELERATE HEAD USING CLOSED LOOP CONTROL
368
END

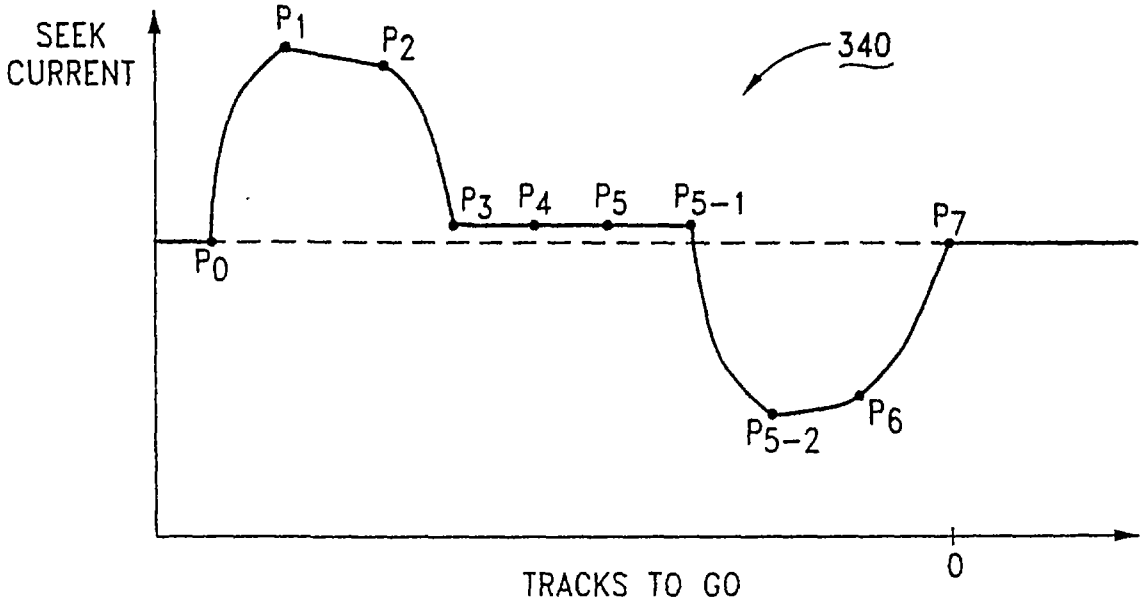

SEEK CURRENT
P1
P2
340
P3
P4
P5
P5-1
P7
P0
P5-2
P6
0
TRACKS TO GO

FIG. 1E

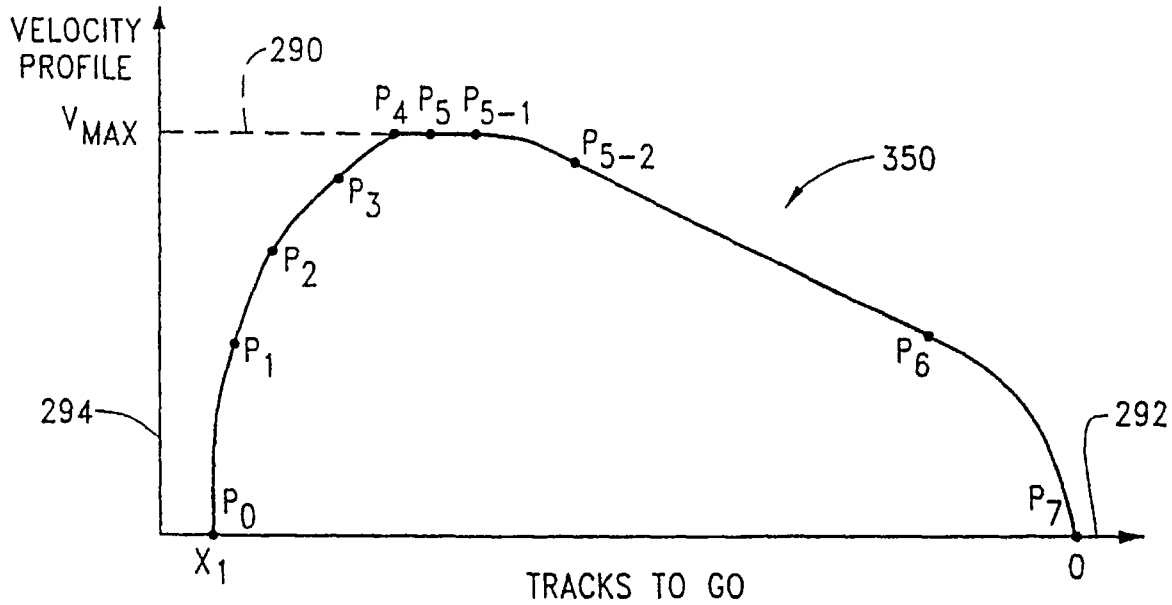

VELOCITY PROFILE
290
VMAX
P4 P5 P5-1
P5-2
350
P3
P2
P1
P6
294
292
P0
P7
X1
0
TRACKS TO GO

FIG. 1F