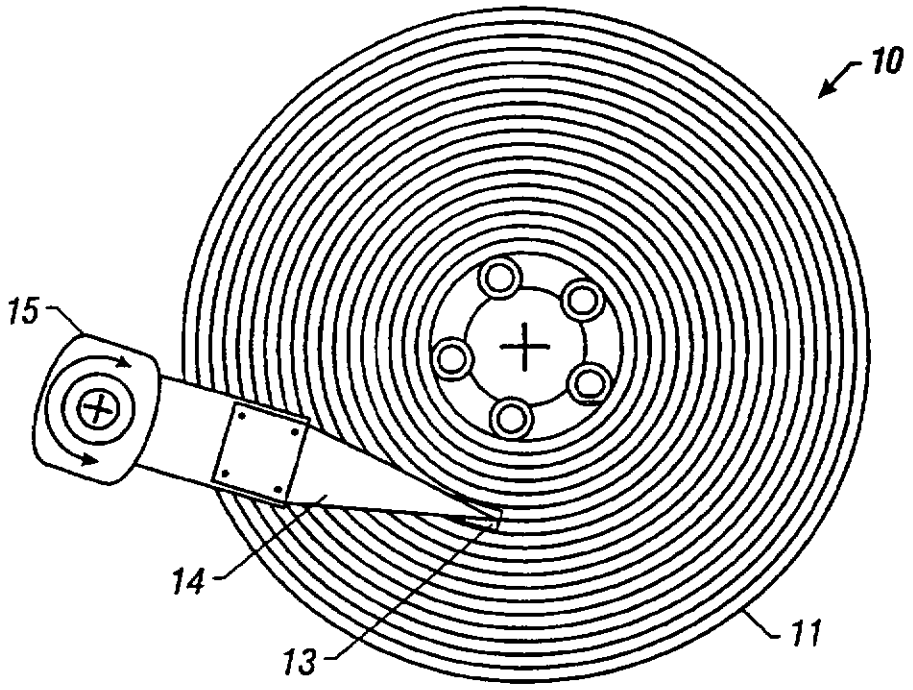


FIG. 1A
(Prior Art)

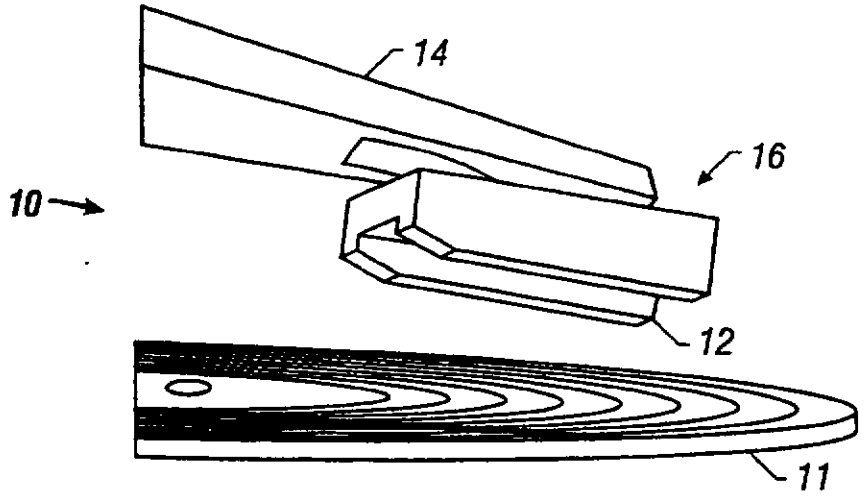


FIG. 1B
(Prior Art)

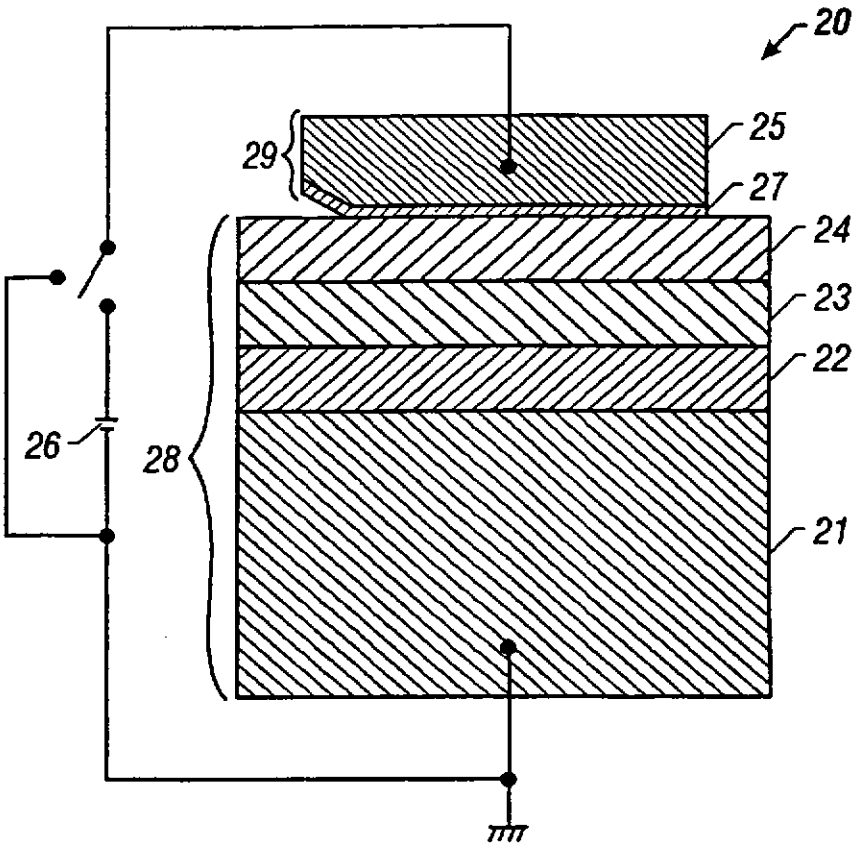


FIG. 2

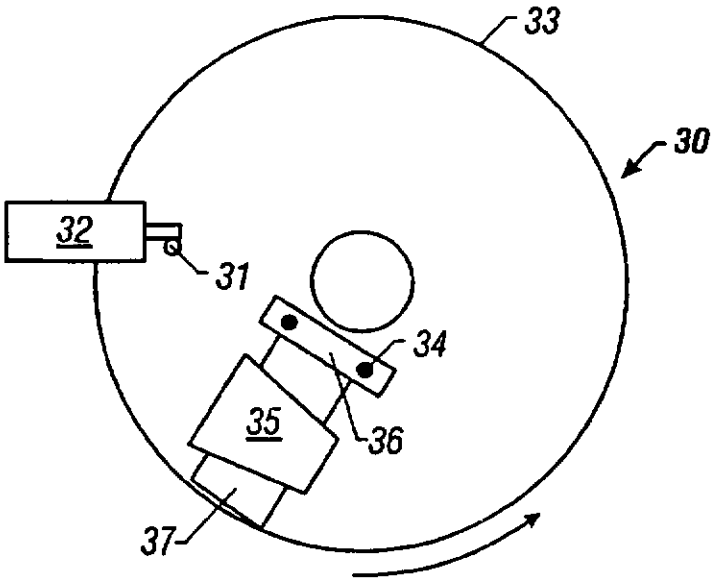


FIG. 3

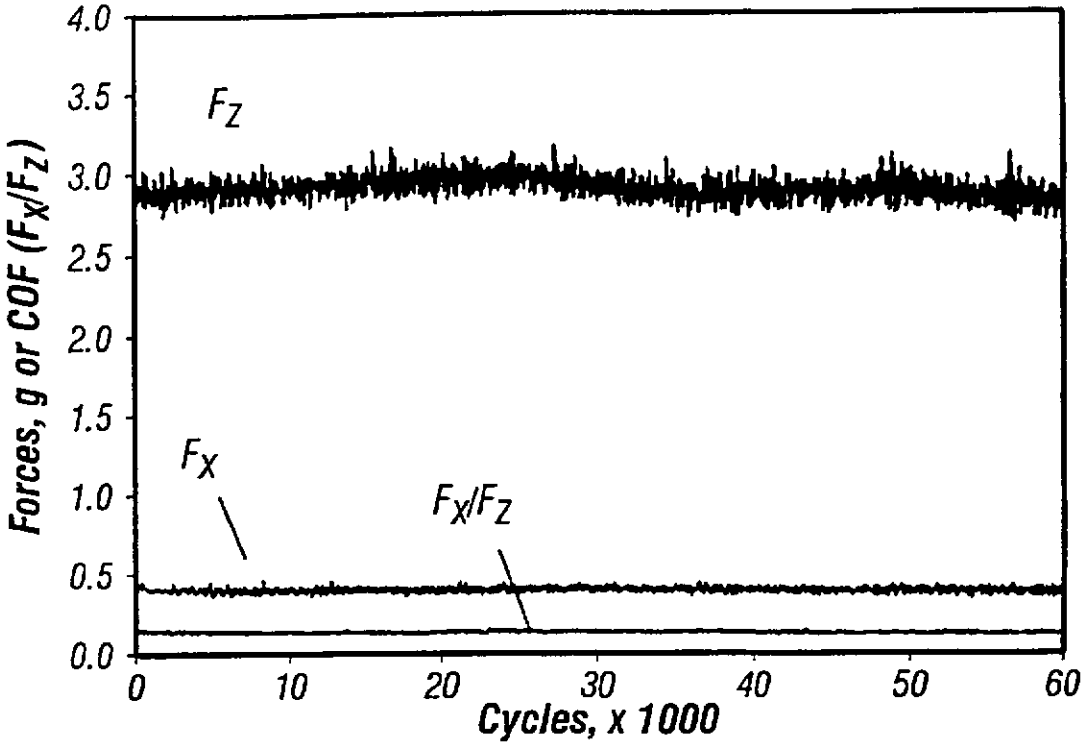

4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Forces, g or COF (F_X/F_Z)
F_Z
F_X
F_X/F_Z
0
10
20
30
40
50
60
Cycles, x 1000

FIG. 4

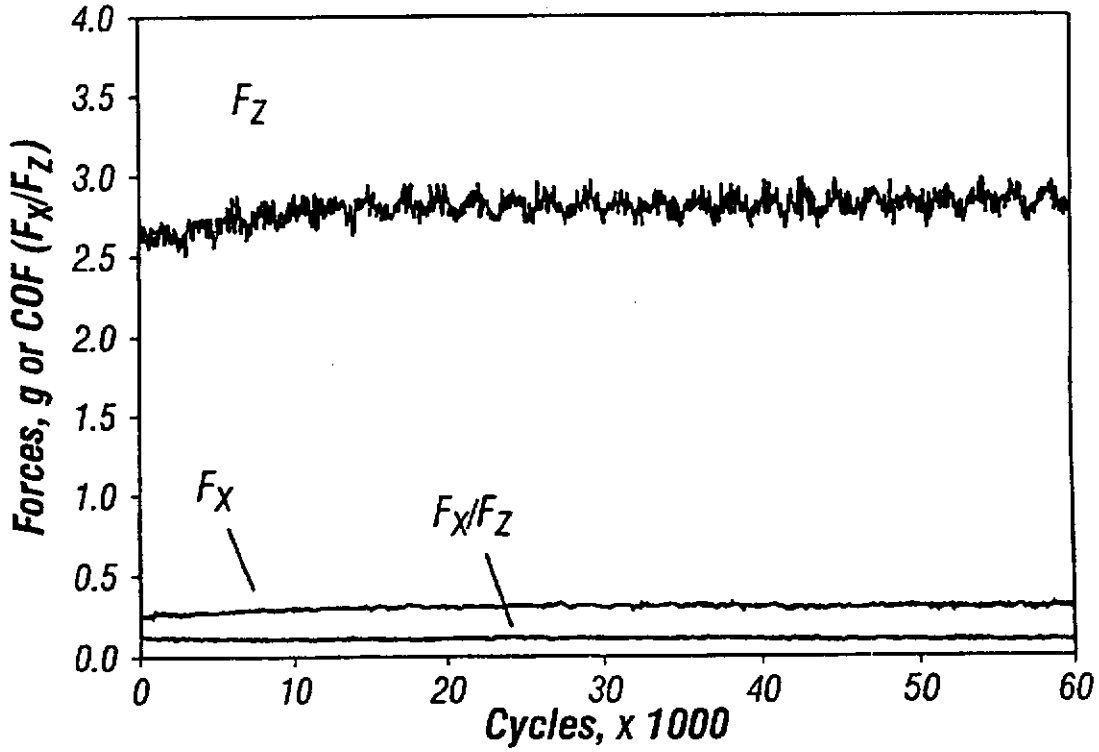

4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Forces, g or COF (F_X/F_Z)
F_Z
F_X
F_X/F_Z
0
10
20
30
40
50
60
Cycles, x 1000

FIG. 5

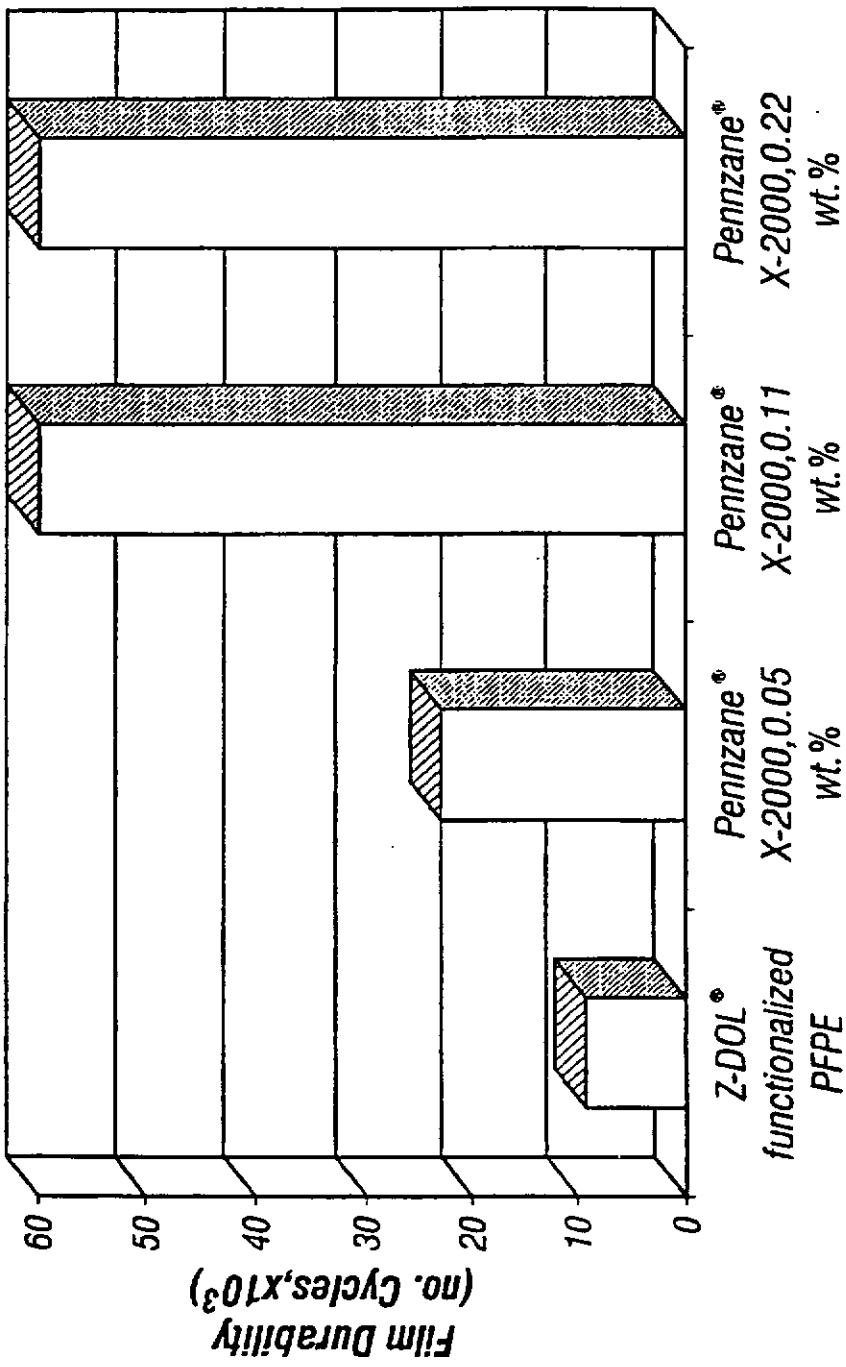

Film Durability
(no. Cycles,x10³)
0
10
20
30
40
50
60
Z-DOL®
functionalized
PFPE
Pennzane®
X-2000,0.05
wt.%
Pennzane®
X-2000,0.11
wt.%
Pennzane®
X-2000,0.22
wt.%

FIG. 6