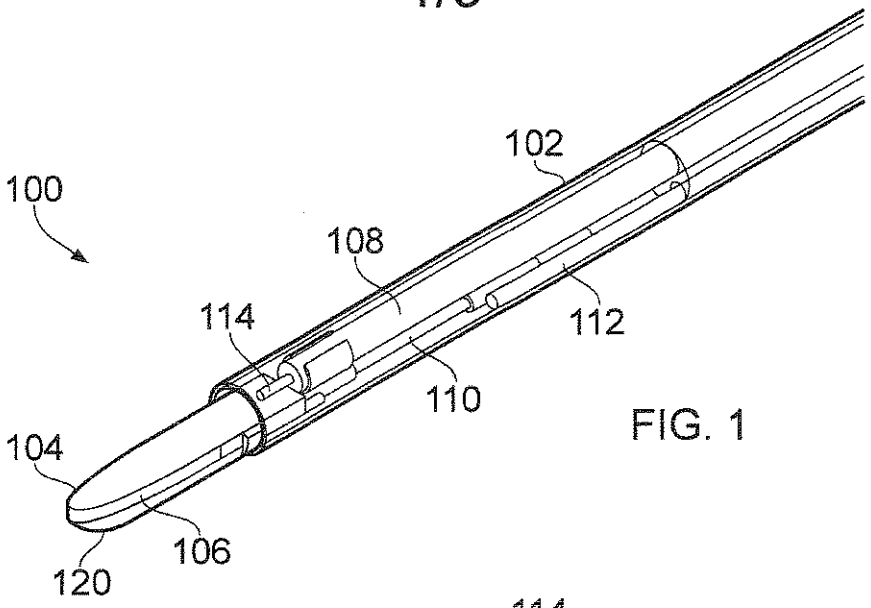


FIG. 1

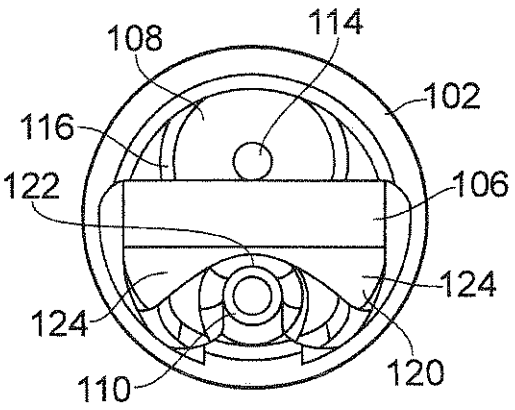


FIG. 2

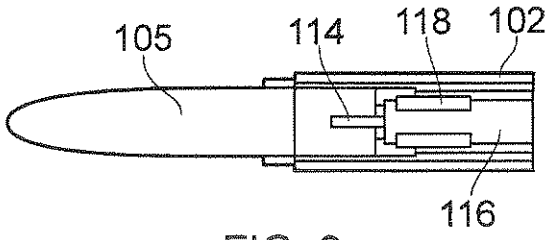


FIG. 3

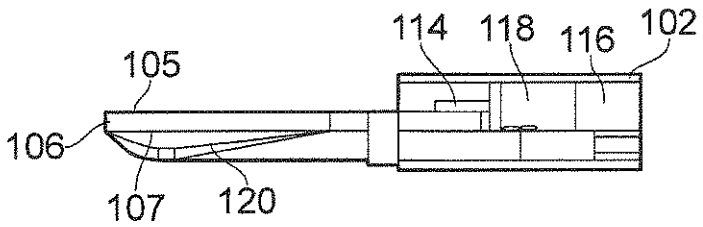


FIG. 4

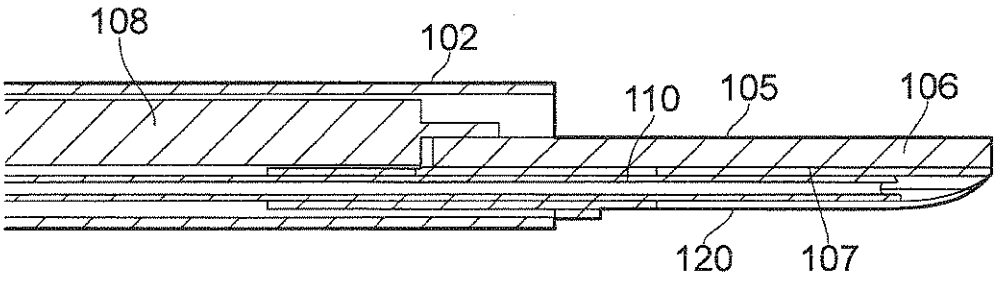
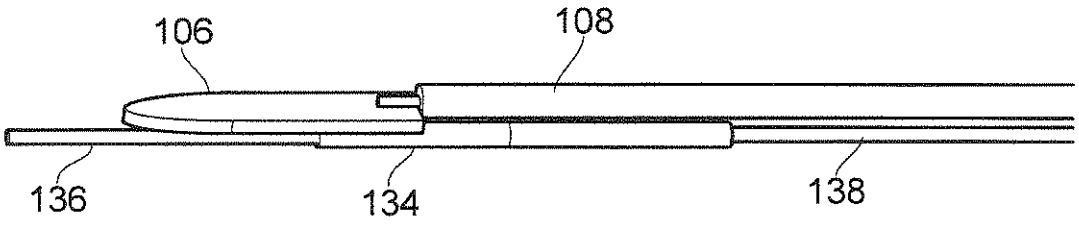


FIG. 5



NEEDLE DEPLOYED

FIG. 6



NEEDLE RETRACTED

FIG. 7

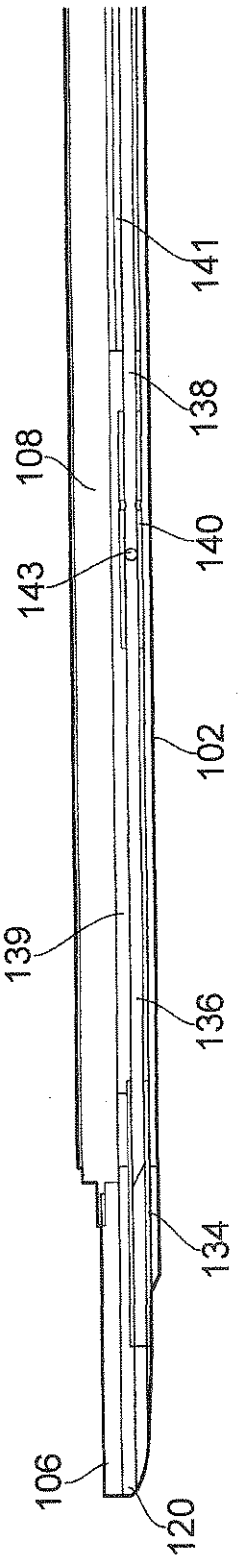


FIG. 7A

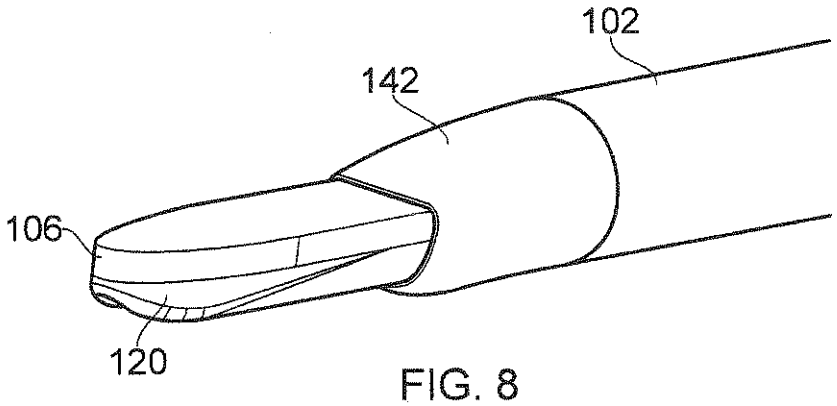


FIG. 8

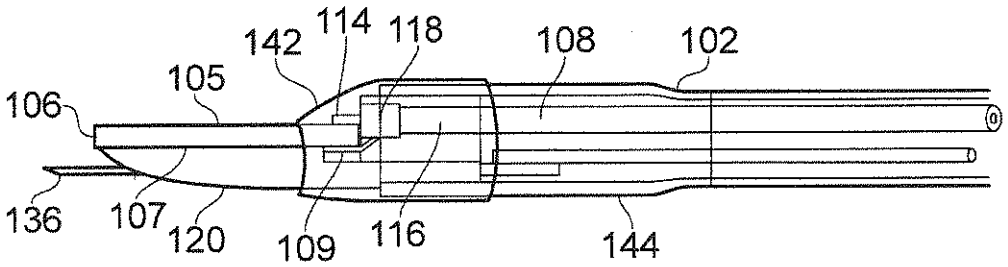


FIG. 9

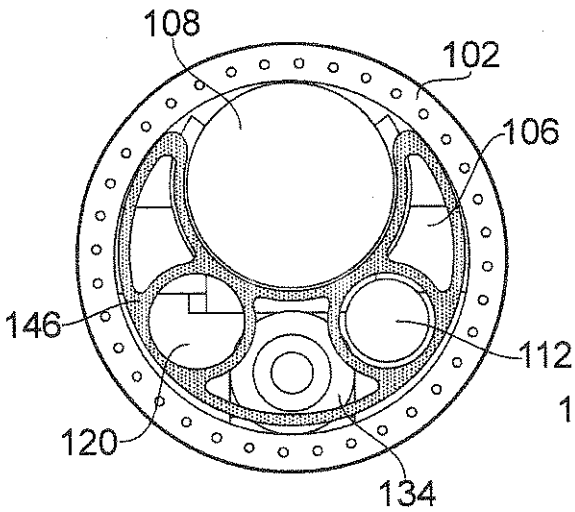


FIG. 10

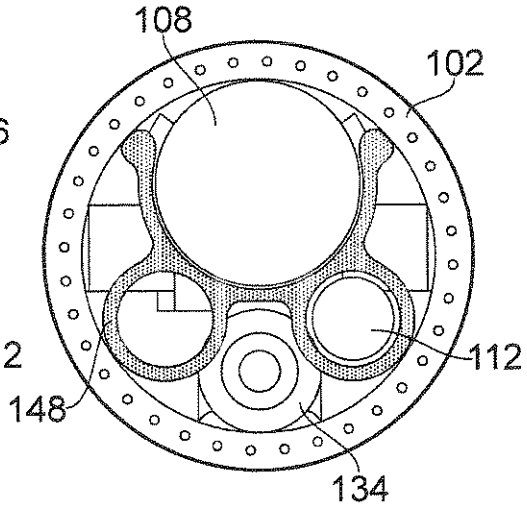


FIG. 11

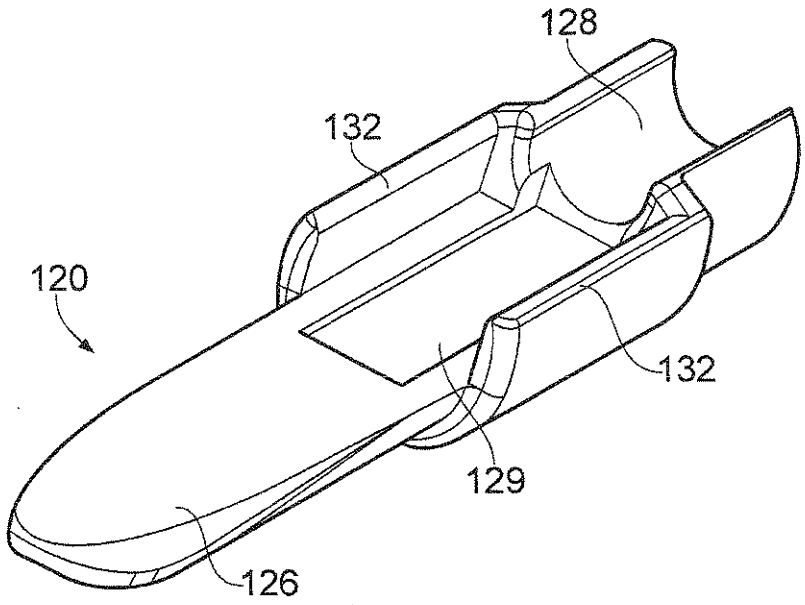


FIG. 12A

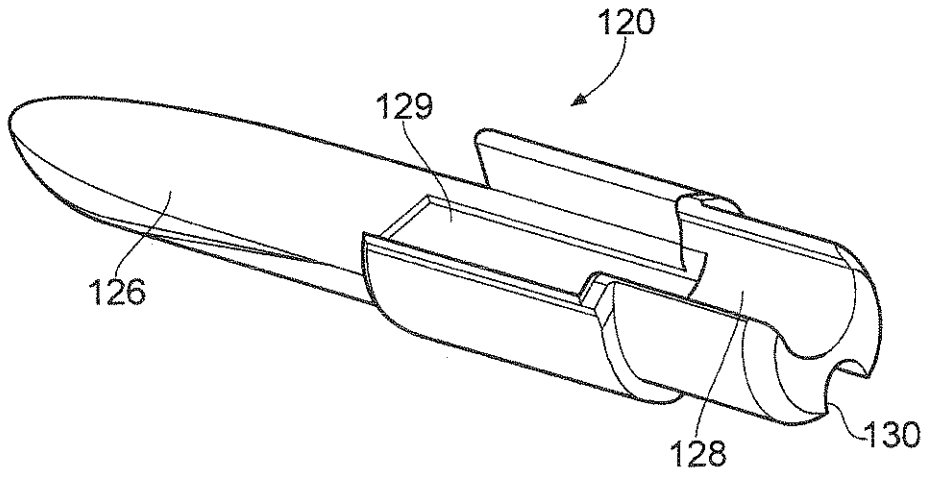


FIG. 12B



FIG. 13

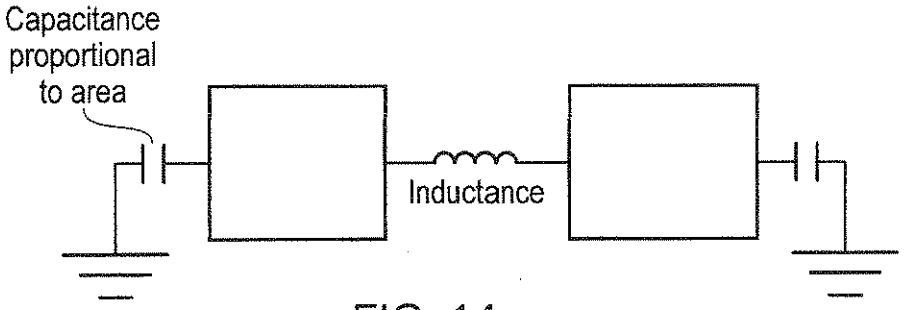


FIG. 14

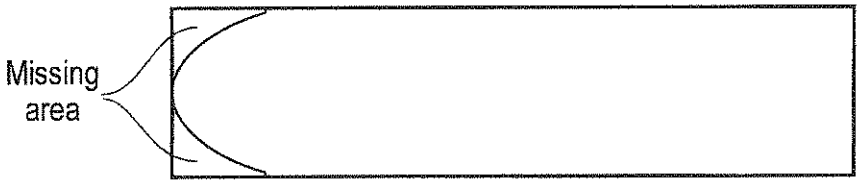


FIG. 15

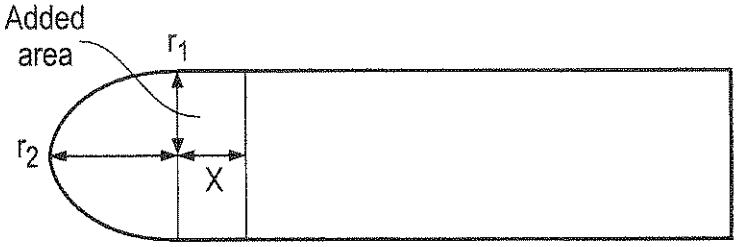


FIG. 16

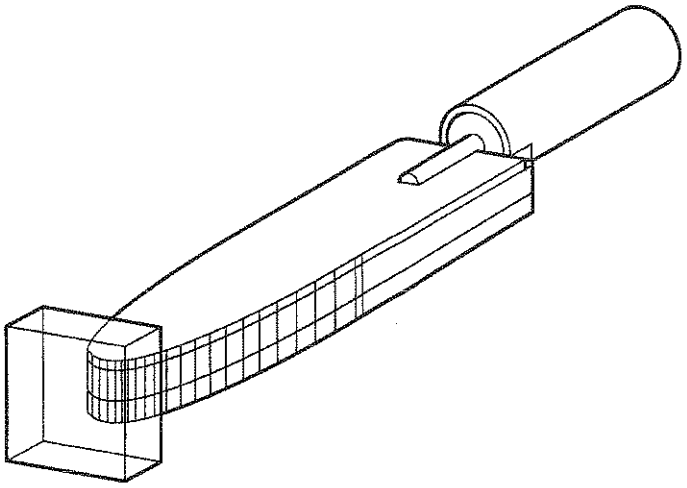


FIG. 17

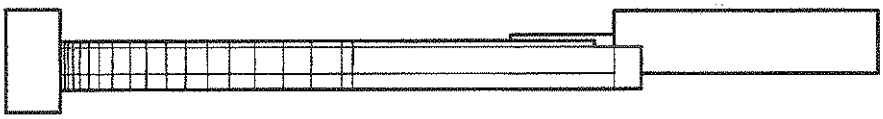


FIG. 18

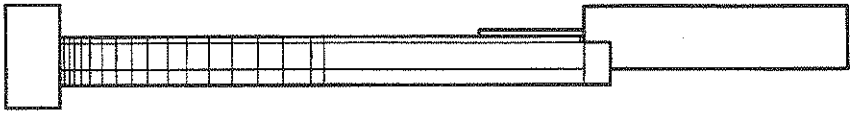


FIG. 19

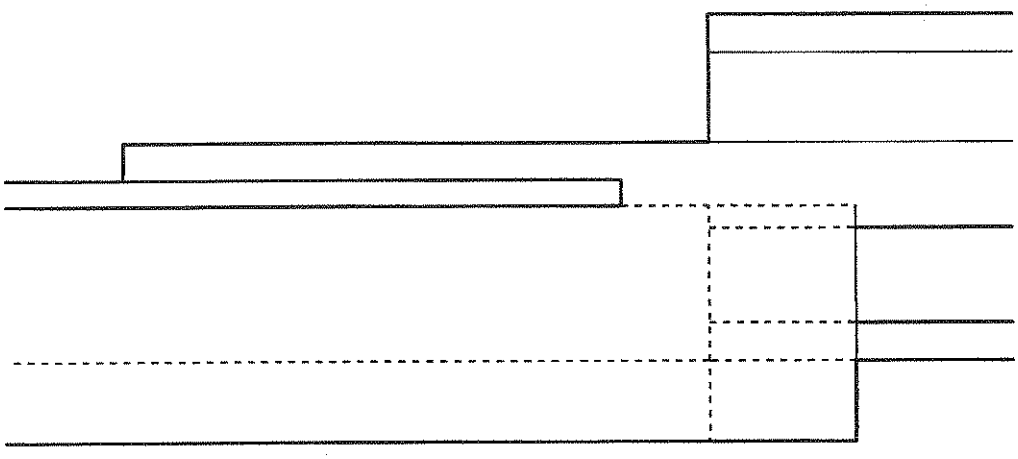


FIG. 20

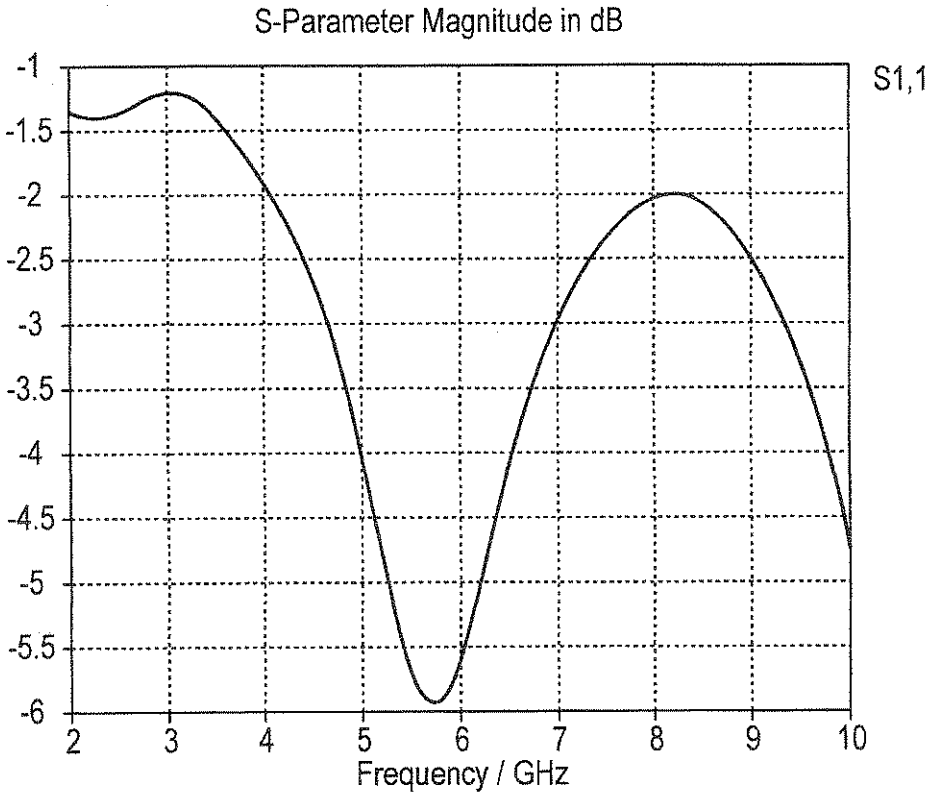

S-Parameter Magnitude in dB
S1,1
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
-5
-5.5
-6
2
3
4
5
6
7
8
9
10
Frequency / GHz

FIG. 21

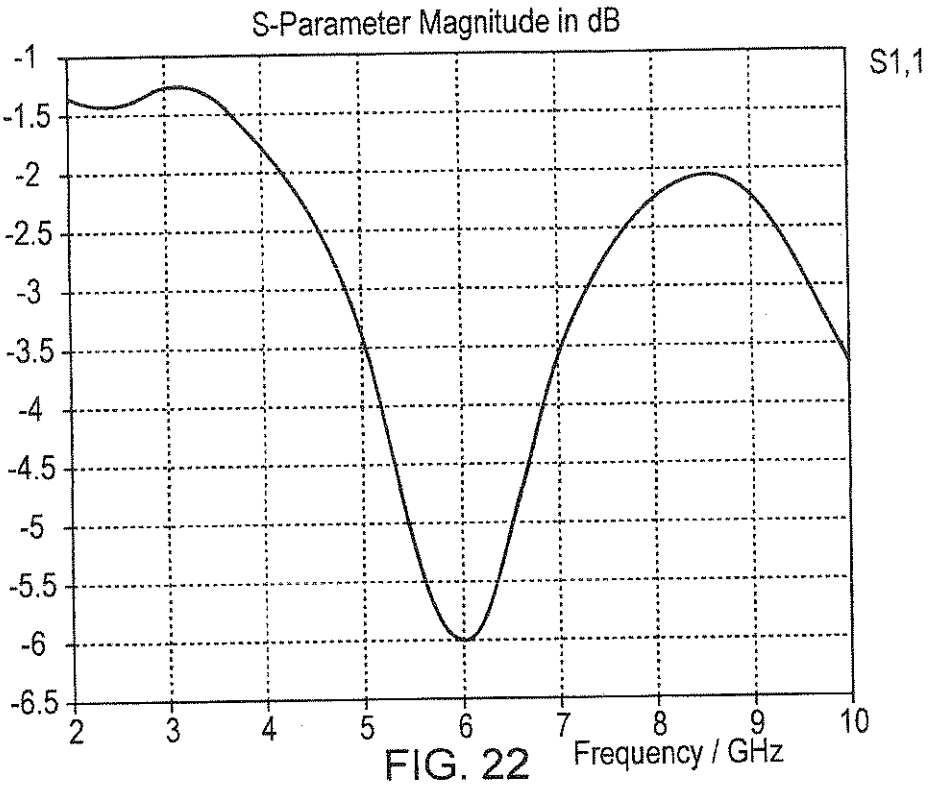

S-Parameter Magnitude in dB
S1,1
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
-5
-5.5
-6
-6.5
2
3
4
5
6
7
8
9
10
Frequency / GHz

FIG. 22

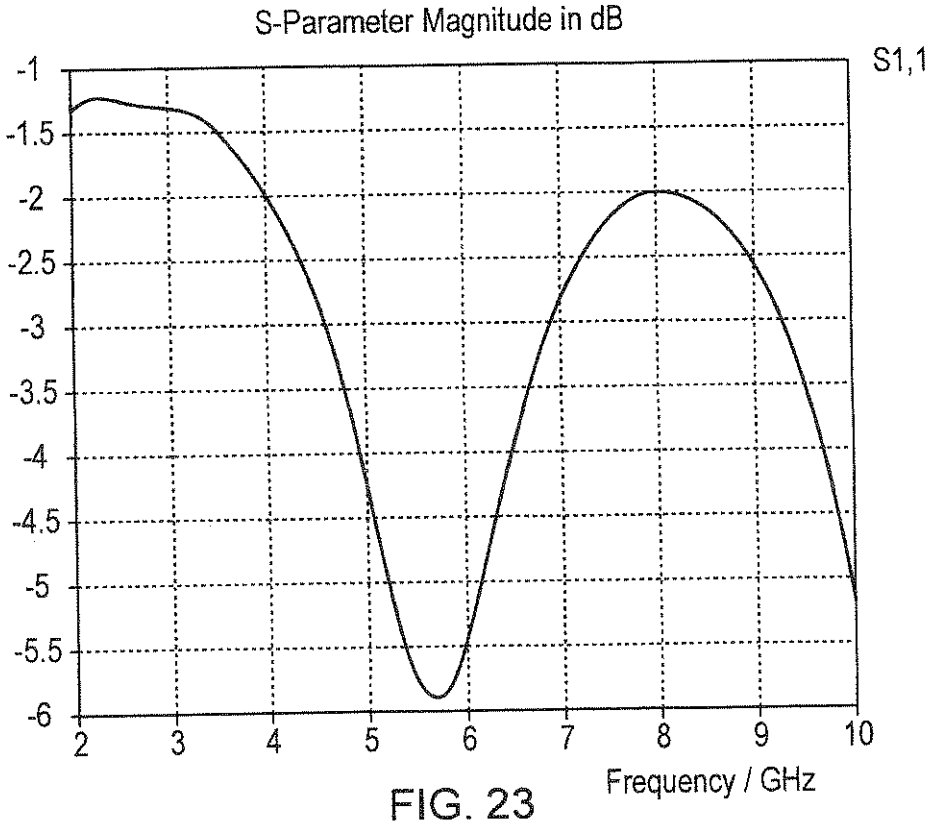

S-Parameter Magnitude in dB
S1,1
-1
-1.5
-2
-2.5
-3
-3.5
-4
-4.5
-5
-5.5
-6
2
3
4
5
6
7
8
9
10
Frequency / GHz

FIG. 23