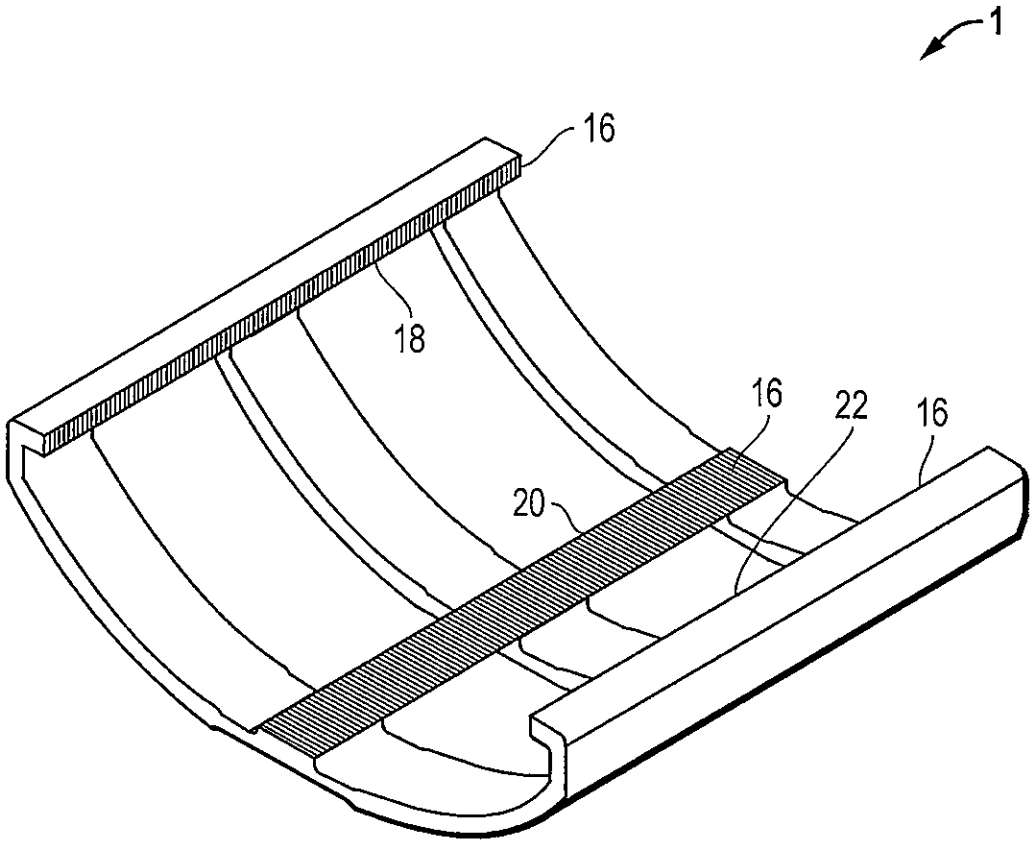


FIG. 1

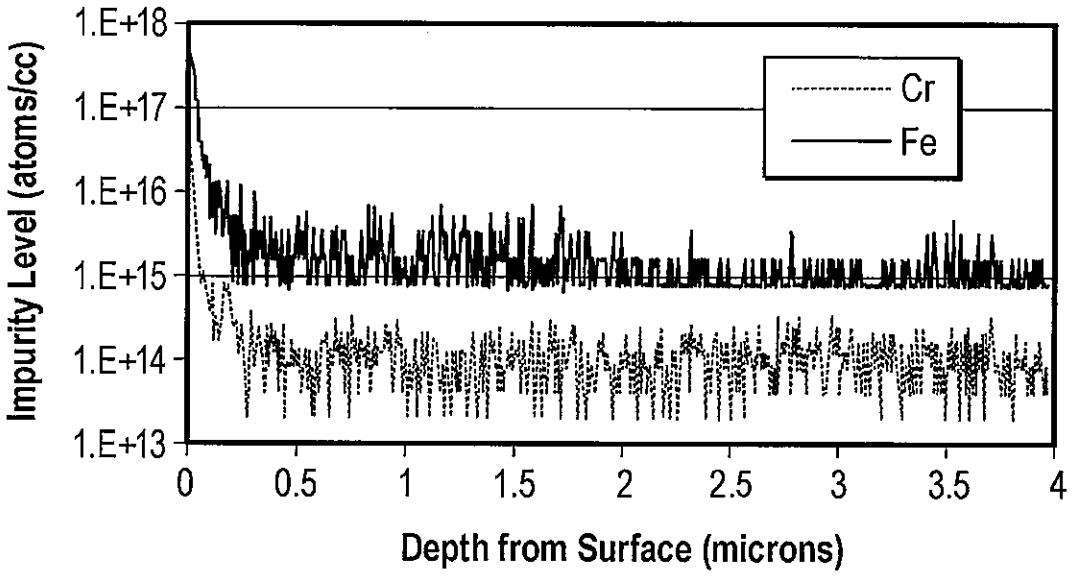

1.E+18
1.E+17
1.E+16
1.E+15
1.E+14
1.E+13
Impurity Level (atoms/cc)
Cr
Fe
0
0.5
1
1.5
2
2.5
3
3.5
4
Depth from Surface (microns)

FIG. 2

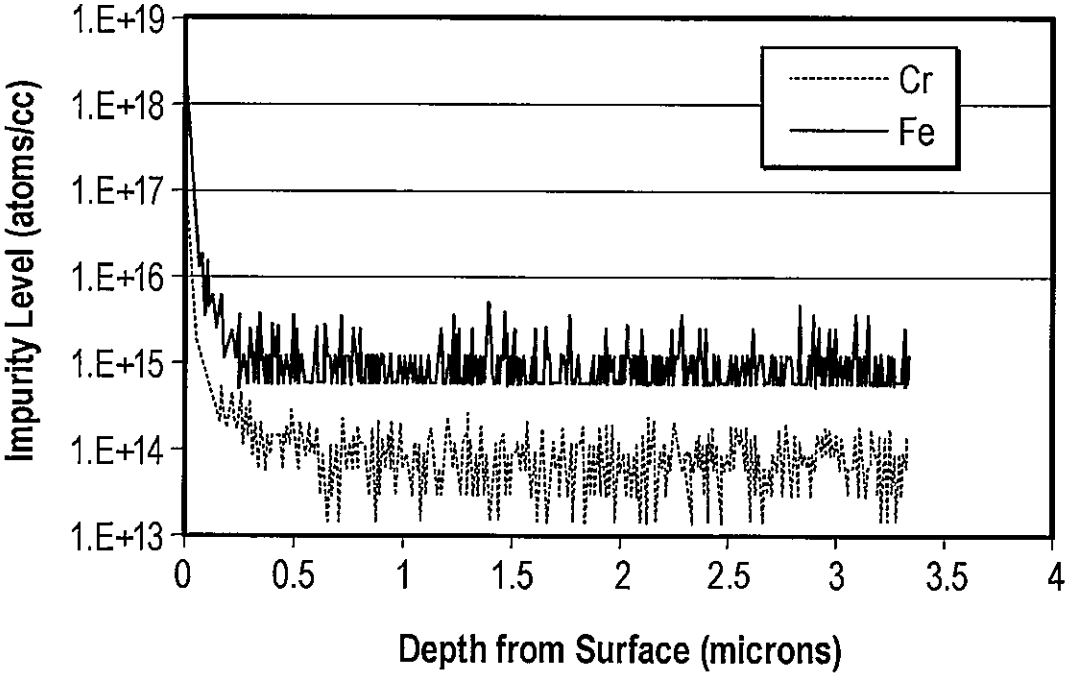

1.E+19
1.E+18
1.E+17
1.E+16
1.E+15
1.E+14
1.E+13
Impurity Level (atoms/cc)
Cr
Fe
0
0.5
1
1.5
2
2.5
3
3.5
4
Depth from Surface (microns)

FIG. 3

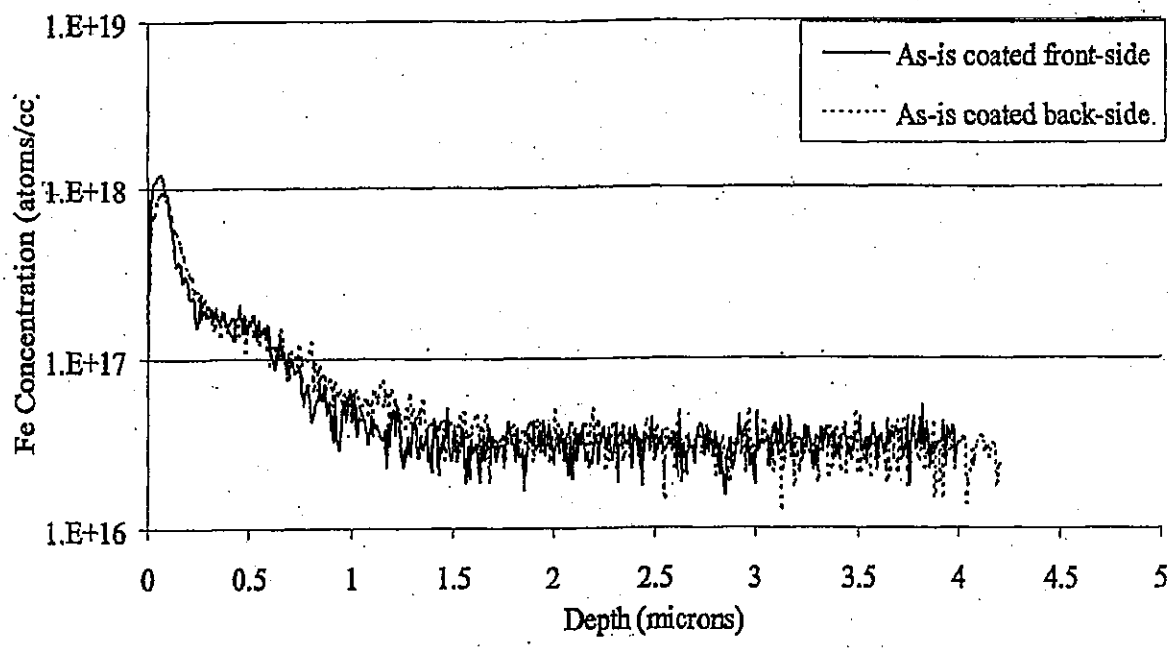

1.E+19
1.E+18
1.E+17
1.E+16
Fe Concentration (atoms/cc)
0
0.5
1
1.5
2
2.5
3
3.5
4
4.5
5
Depth (microns)
As-is coated front-side
As-is coated back-side.

FIG. 4

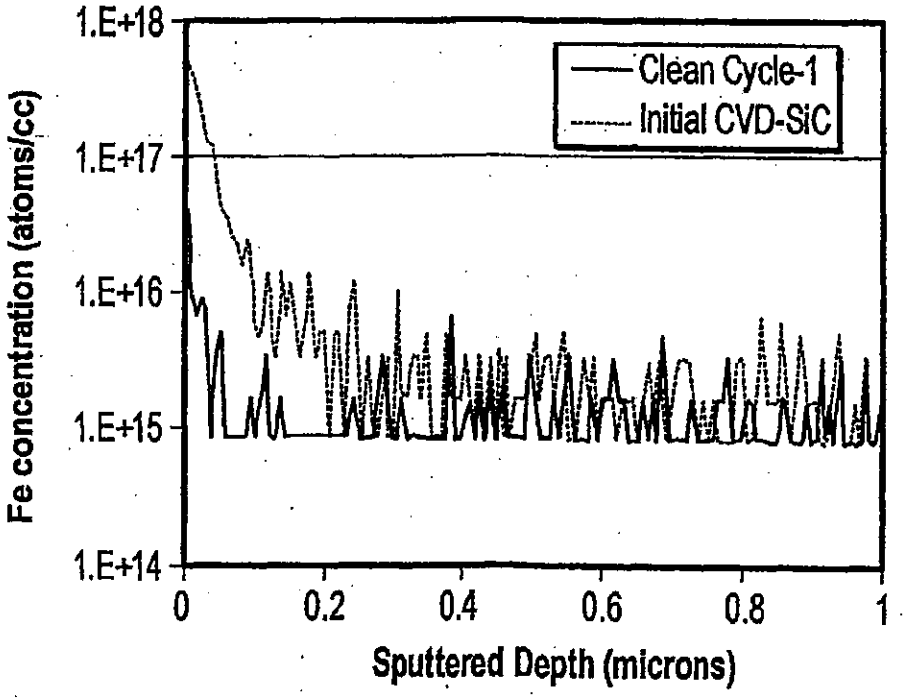

1.E+18
1.E+17
1.E+16
1.E+15
1.E+14
Fe concentration (atoms/cc)
0
0.2
0.4
0.6
0.8
1
Sputtered Depth (microns)
Clean Cycle-1
Initial CVD-SiC

FIG. 5

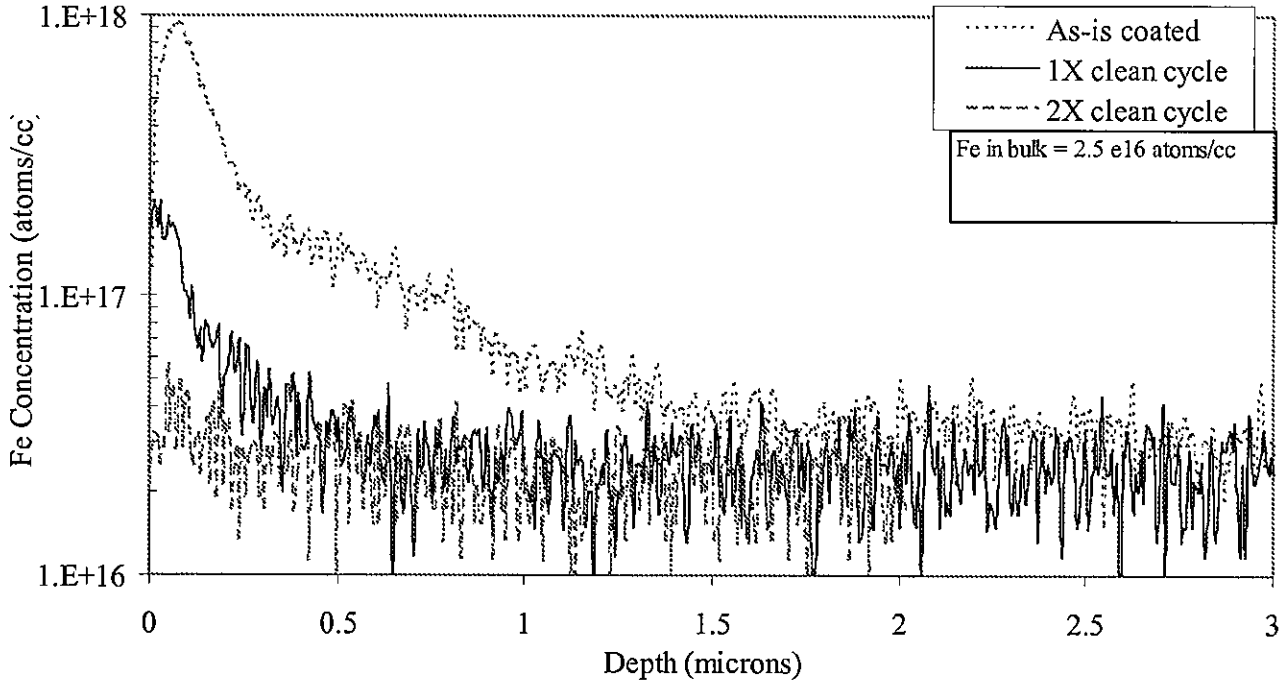

1.E+18
1.E+17
1.E+16
Fe Concentration (atoms/cc)
0
0.5
1
1.5
2
2.5
3
Depth (microns)
As-is coated
1X clean cycle
2X clean cycle
Fe in bulk = 2.5 e16 atoms/cc

FIG. 6

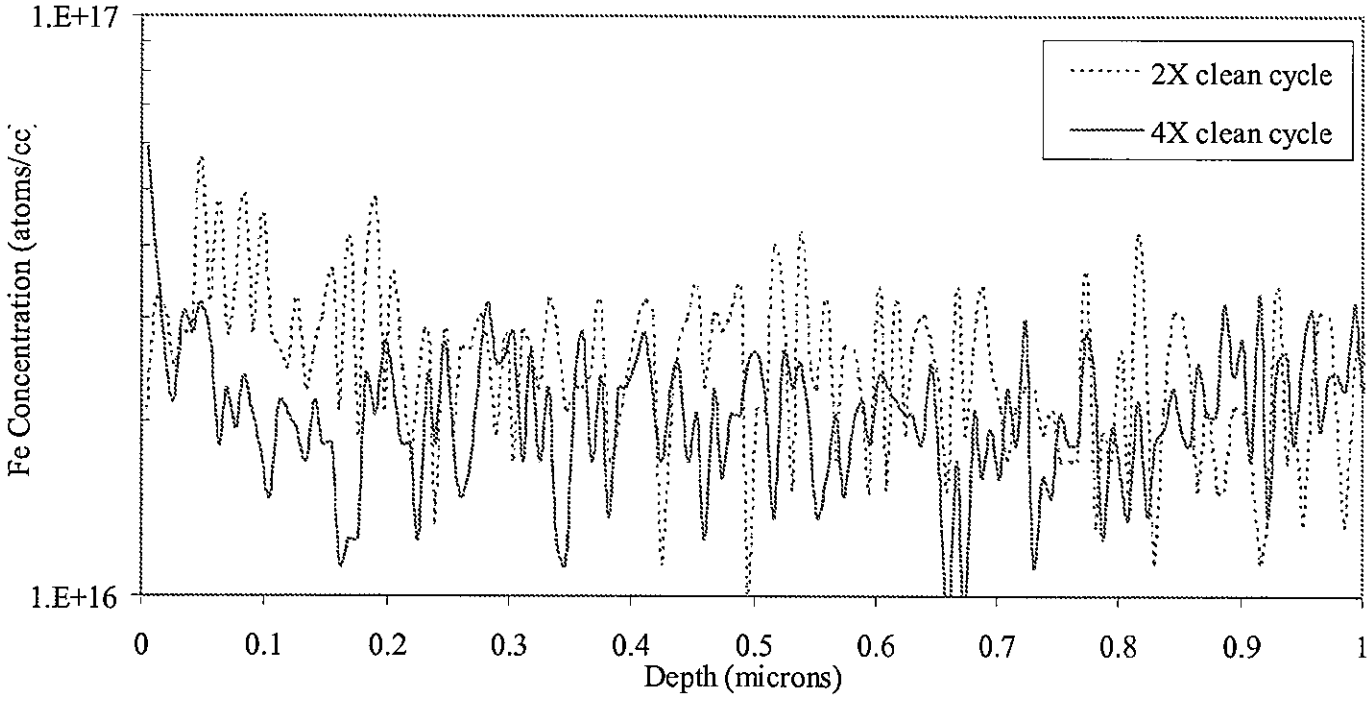

1.E+17
1.E+16
Fe Concentration (atoms/cc)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Depth (microns)
2X clean cycle
4X clean cycle

FIG. 7

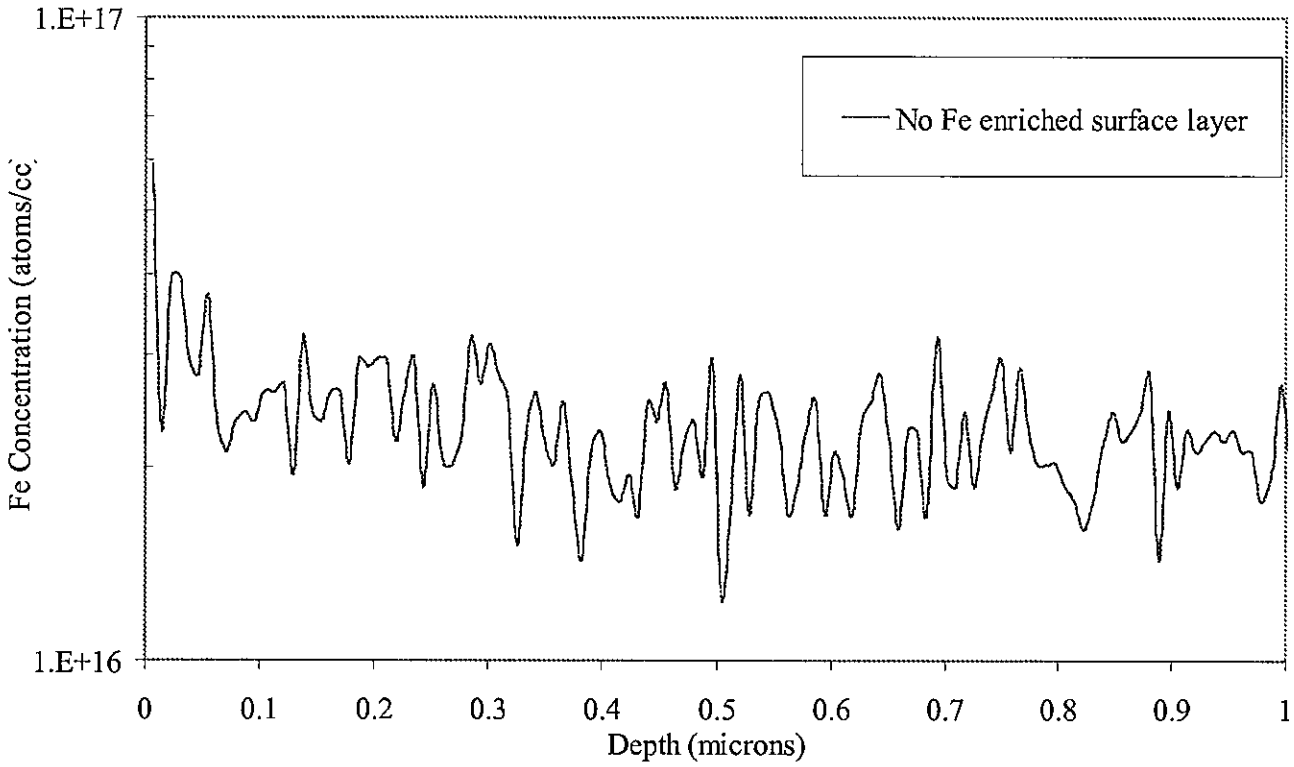

1.E+17
1.E+16
Fe Concentration (atoms/cc)
No Fe enriched surface layer
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
Depth (microns)

FIG. 8

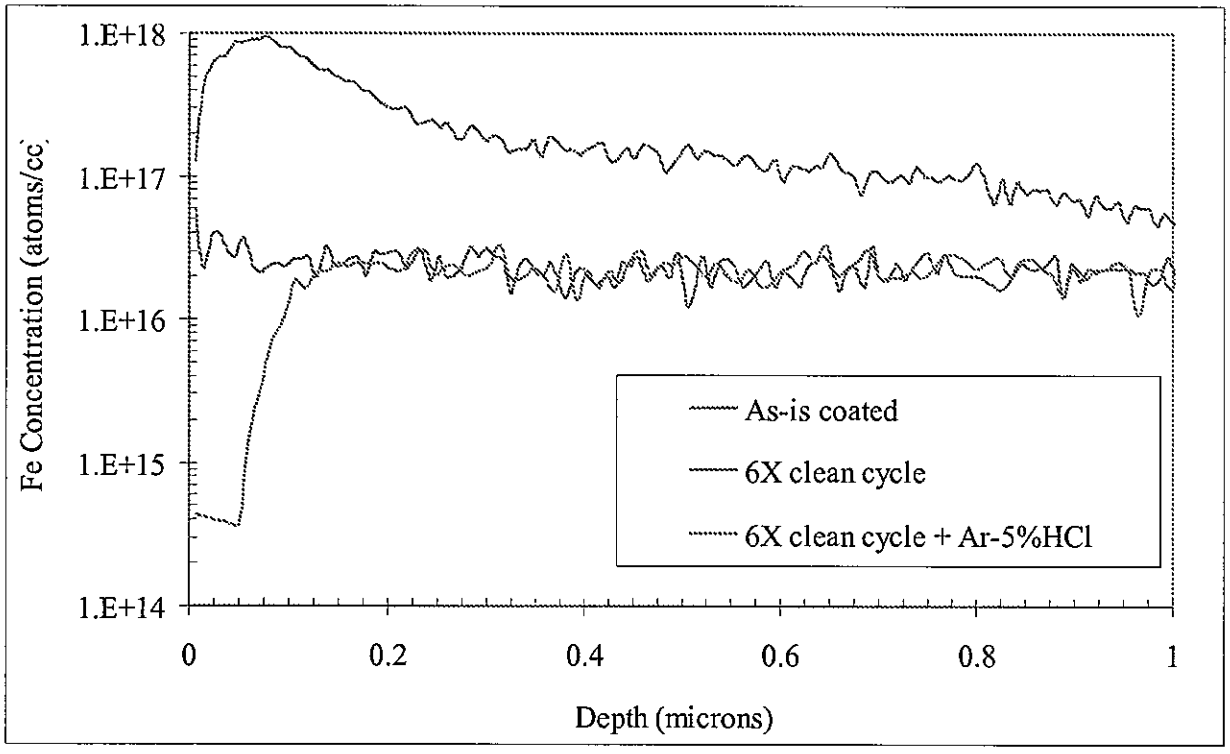

1.E+18
1.E+17
1.E+16
1.E+15
1.E+14
Fe Concentration (atoms/cc)
As-is coated
6X clean cycle
6X clean cycle + Ar-5%HCl
0
0.2
0.4
0.6
0.8
1
Depth (microns)

FIG. 9

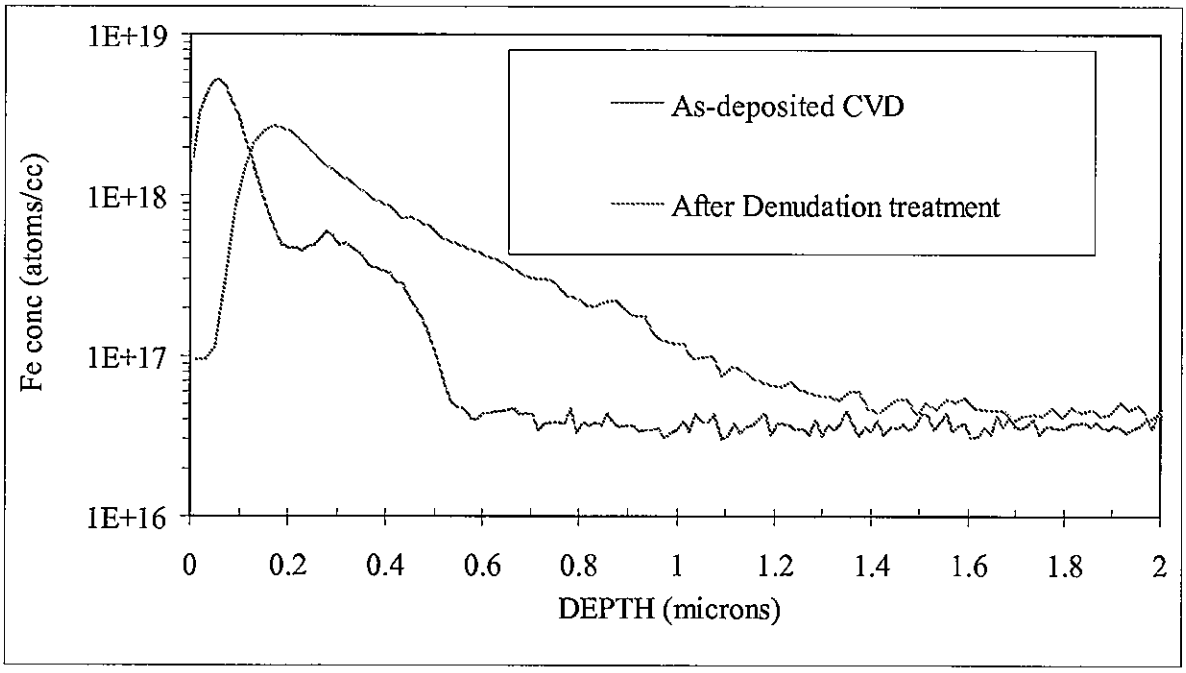

1E+19
1E+18
1E+17
1E+16
Fe conc (atoms/cc)
As-deposited CVD
After Denudation treatment
0
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
DEPTH (microns)

FIG. 10