Fig.1A

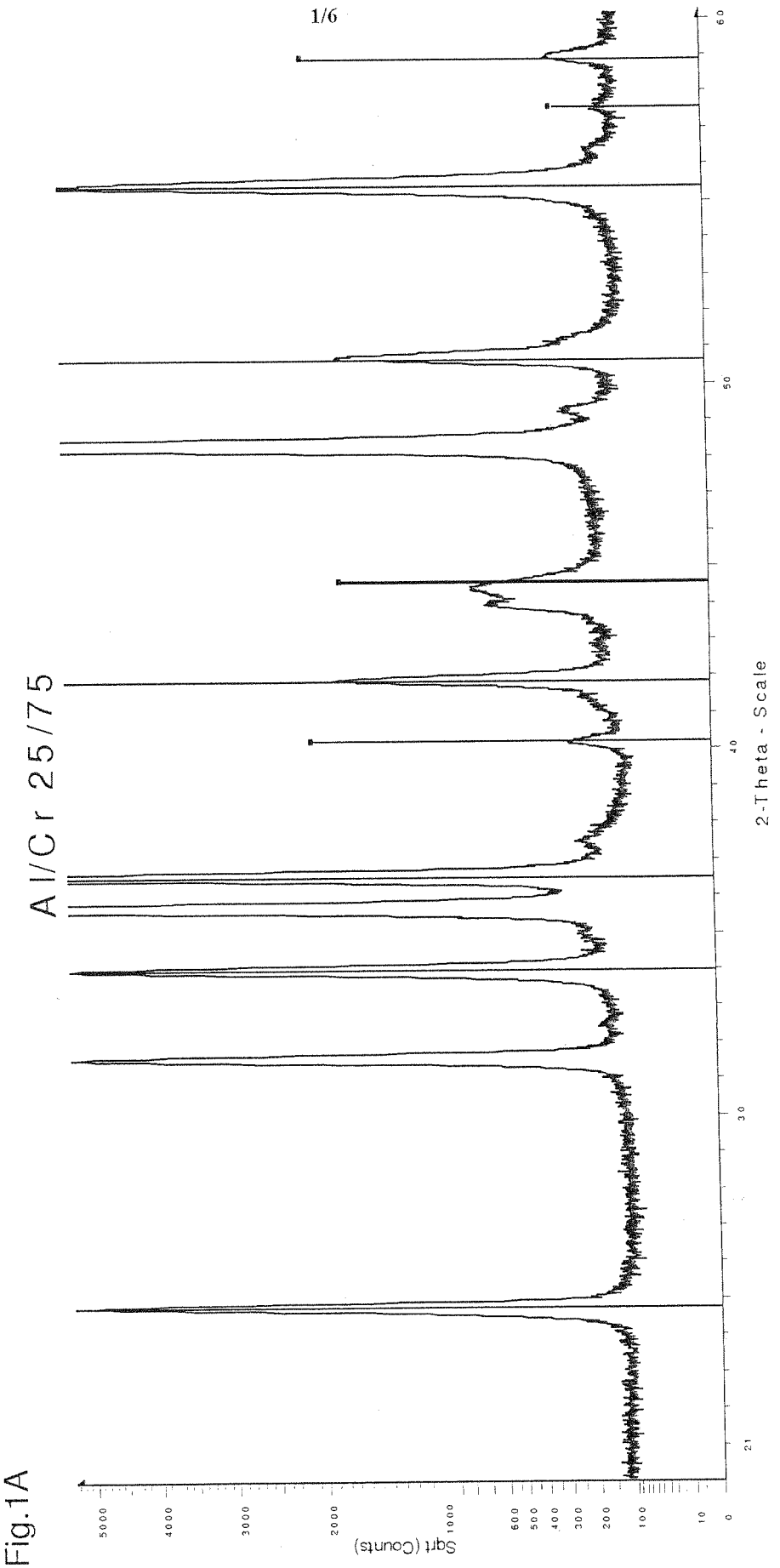

Al/Cr 25/75
Sqrt (Counts)
5000
4000
3000
2000
1000
600
500
400
300
200
100
10
0
21
30
40
50
60
2-Theta - Scale

Fig.1B

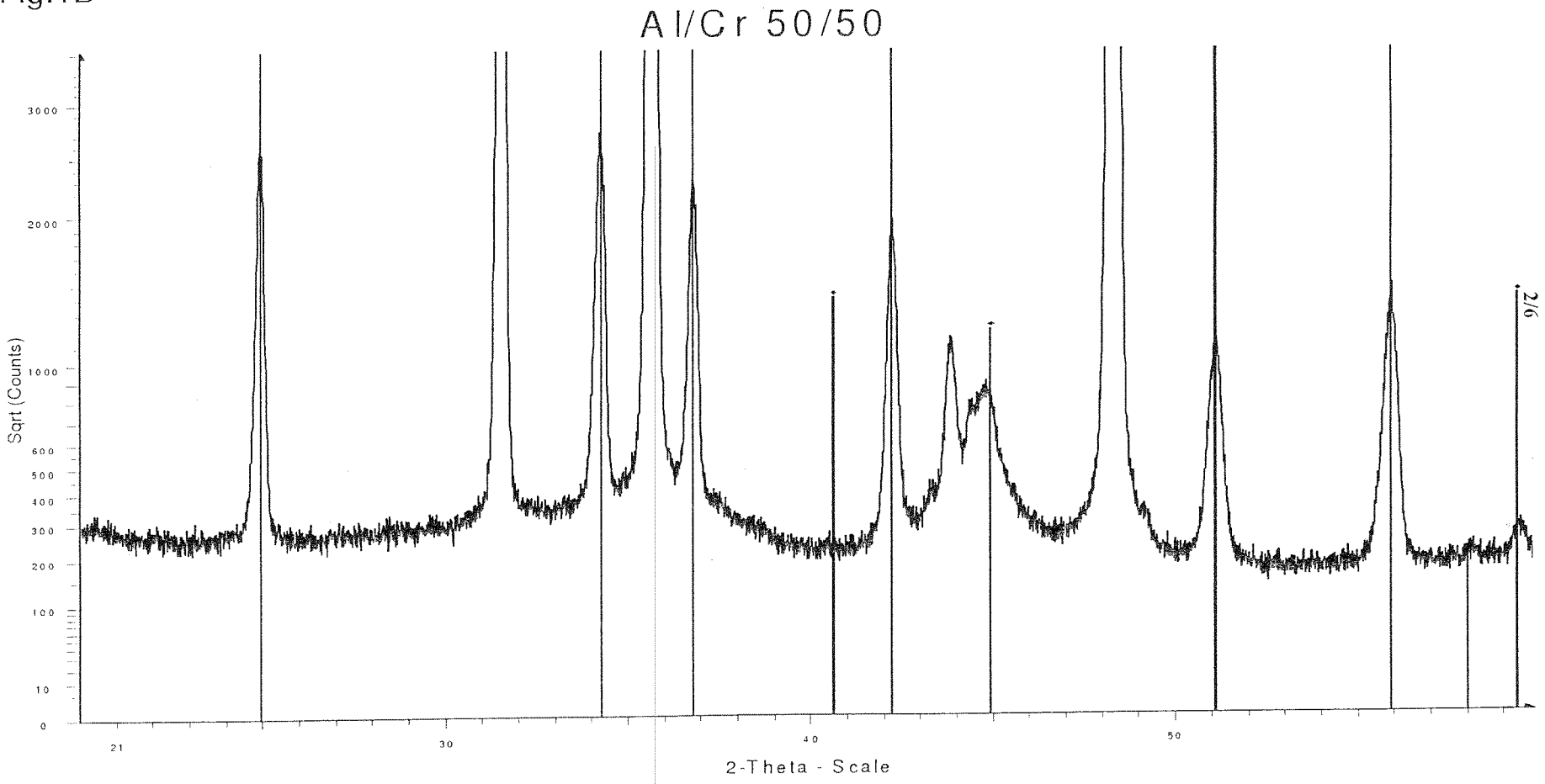

Al/Cr 50/50
Sqrt (Counts)
3000
2000
1000
600
500
400
300
200
100
10
0
21
30
40
50
2-Theta - Scale
2/6

Fig.1C

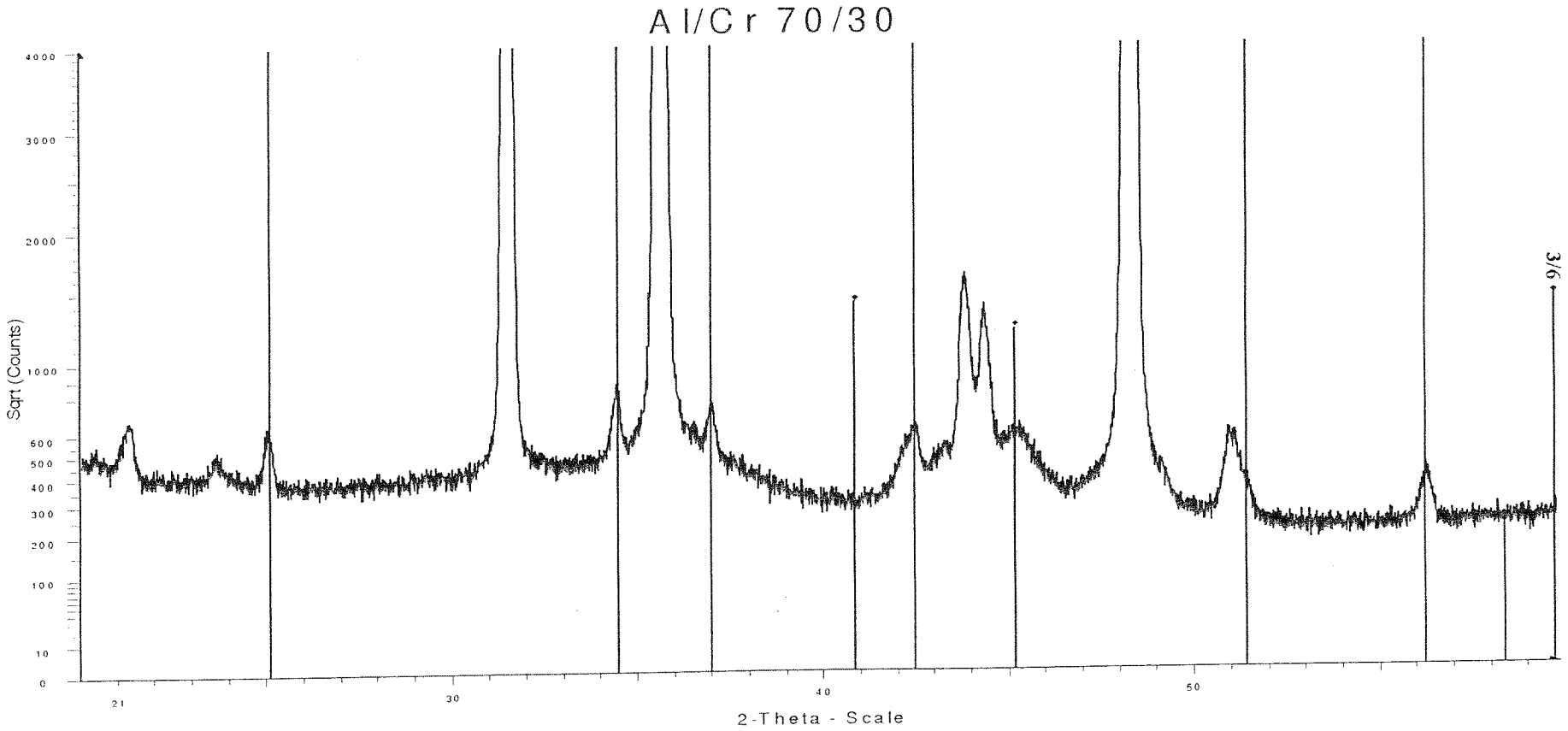

Al/Cr 70/30
Sqrt (Counts)
4000
3000
2000
1000
600
500
400
300
200
100
10
0
21
30
40
50
2-Theta - Scale
3/6

Fig.2

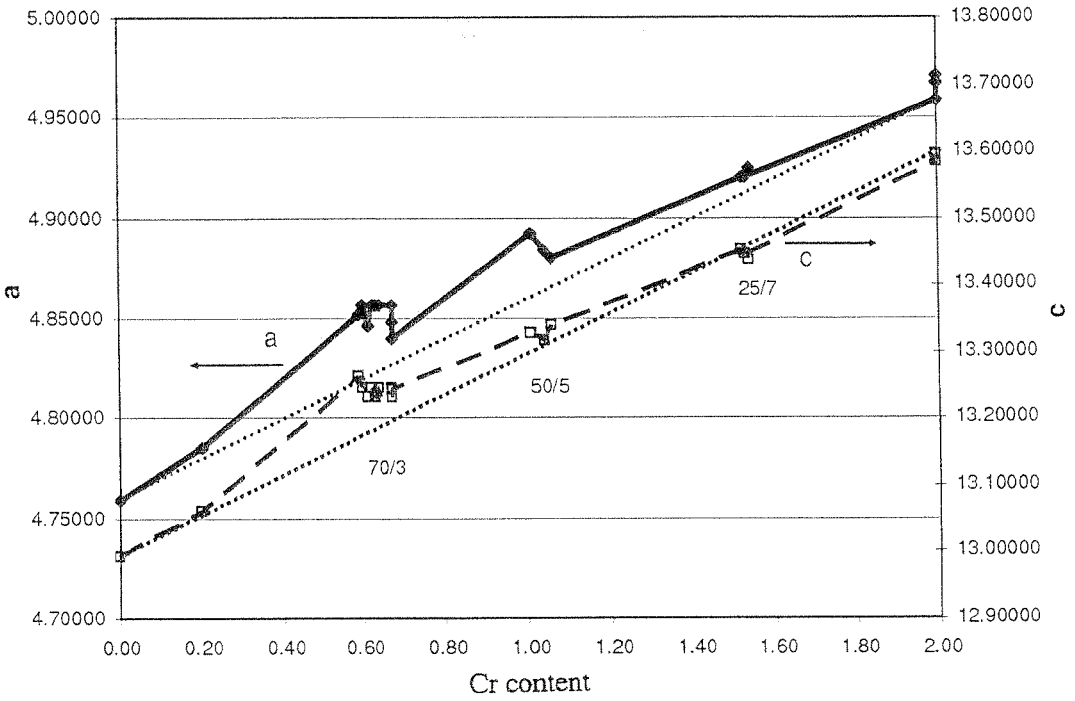

5.00000
4.95000
4.90000
4.85000
4.80000
4.75000
4.70000
a
13.80000
13.70000
13.60000
13.50000
13.40000
13.30000
13.20000
13.10000
13.00000
12.90000
c
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
Cr content
a
c
25/7
50/5
70/3

Fig.3

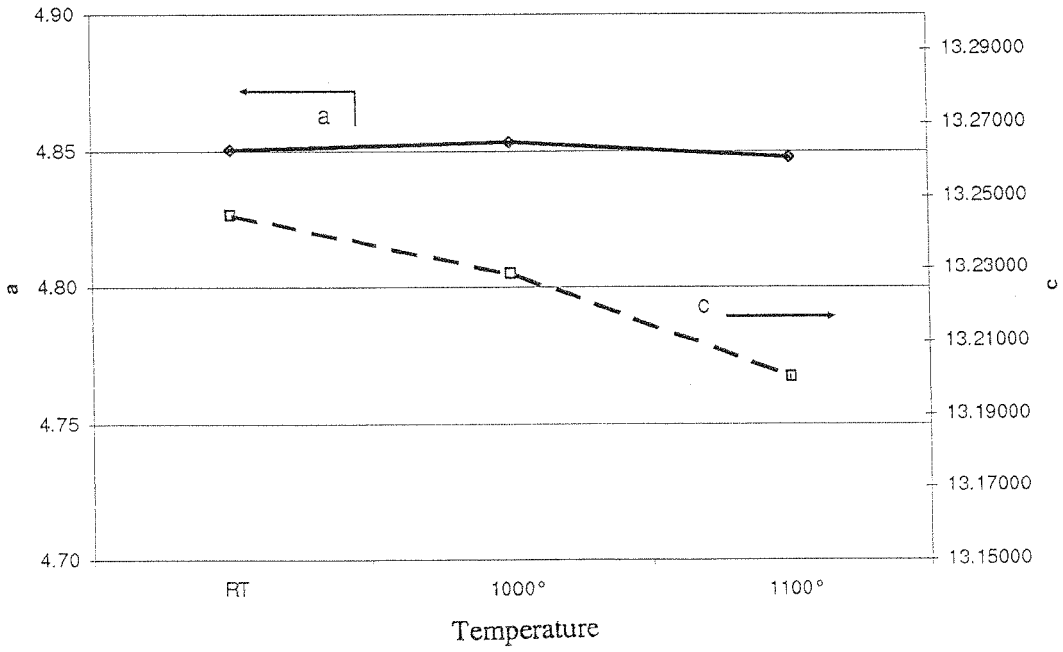

4.90
4.85
4.80
4.75
4.70
a
13.29000
13.27000
13.25000
13.23000
13.21000
13.19000
13.17000
13.15000
c
RT
1000°
1100°
Temperature
a
c

Fig.4

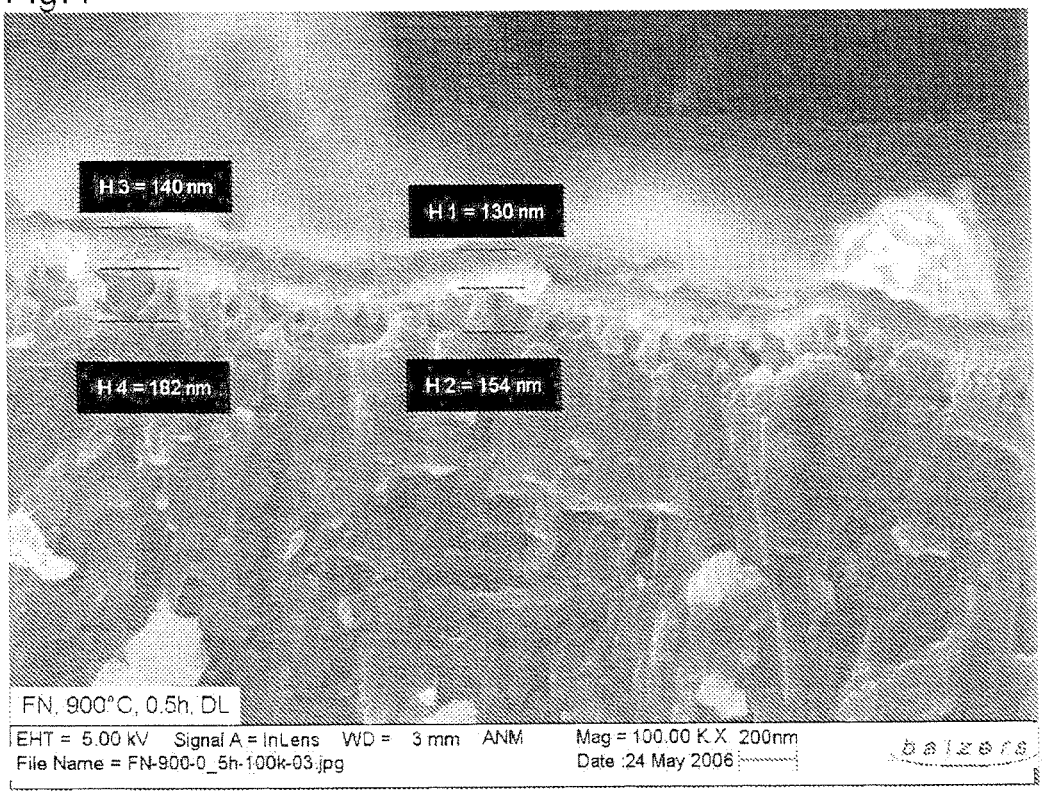

H 3 = 140 nm
H 1 = 130 nm
H 4 = 182 nm
H 2 = 154 nm
FN, 900°C, 0.5h, DL
EHT = 5.00 kV Signal A = InLens WD = 3 mm ANM
File Name = FN-900-0_5h-100k-03.jpg
Mag = 100.00 K X 200nm
Date :24 May 2006
balzers

Fig.5

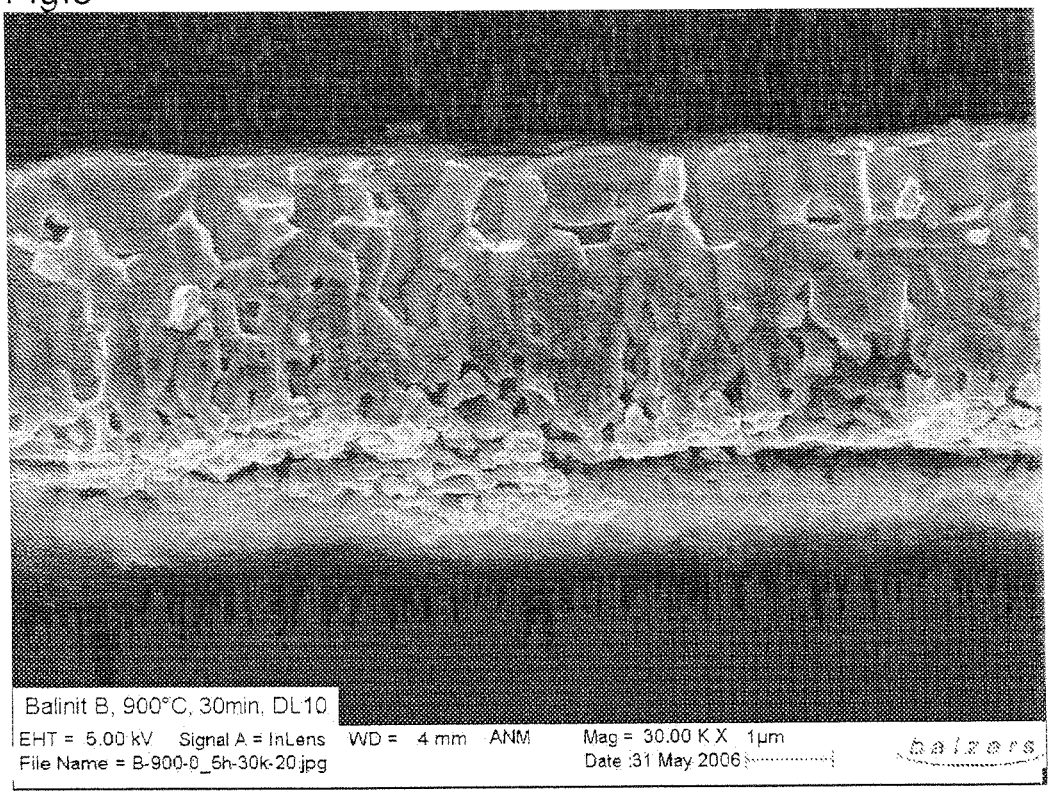

Balinit B, 900°C, 30min, DL10
EHT = 5.00 kV Signal A = InLens WD = 4 mm ANM
File Name = B-900-0_5h-30k-20.jpg
Mag = 30.00 K X 1µm
Date :31 May 2006
balzers

Fig.6

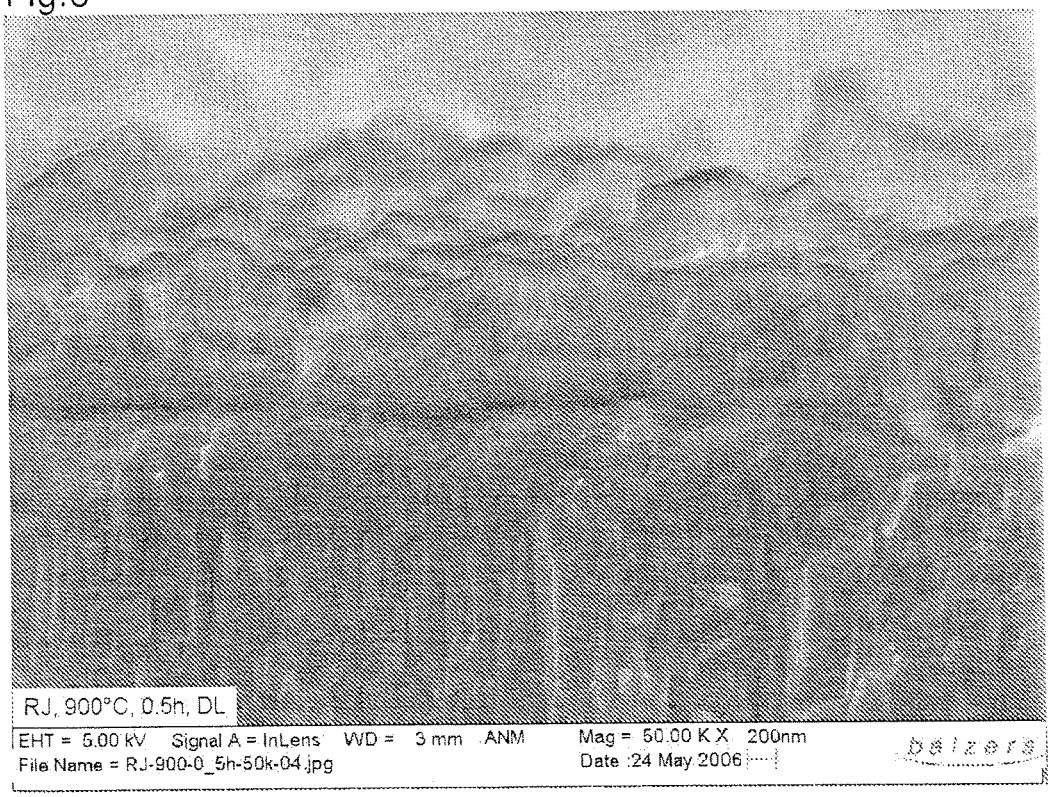
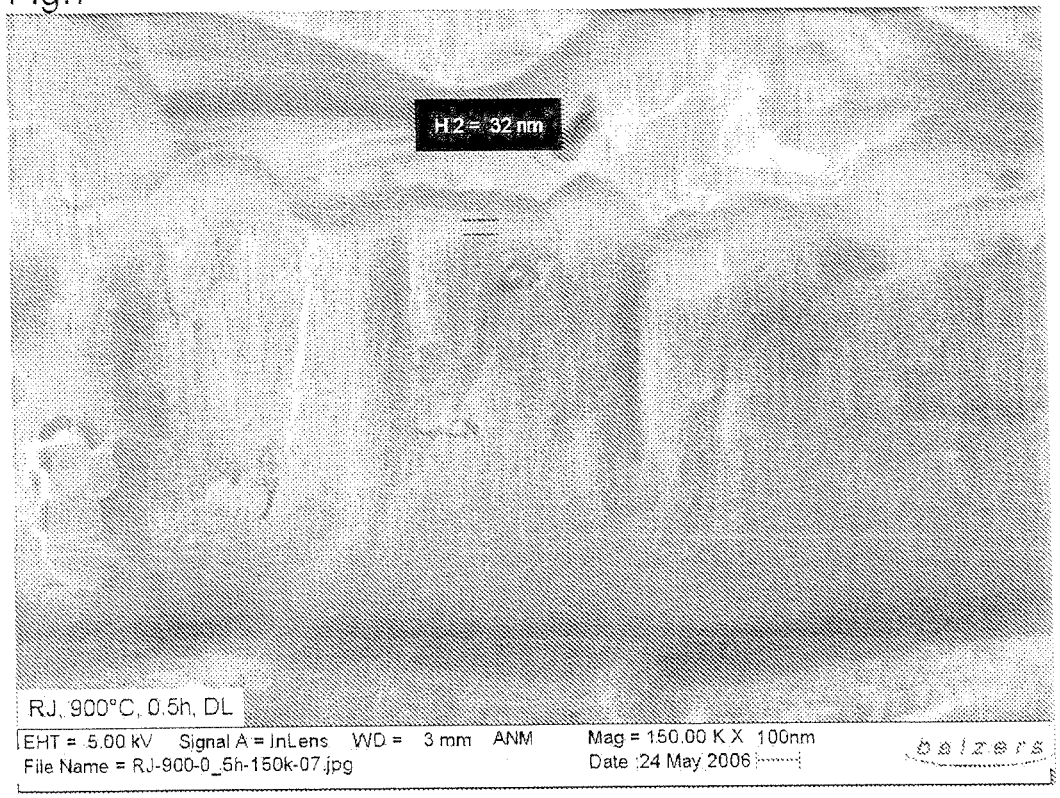

RJ, 900°C, 0.5h, DL
EHT = 5.00 kV Signal A = InLens WD = 3 mm ANM Mag = 50.00 K X 200nm
File Name = RJ-900-0_5h-50k-04.jpg Date :24 May 2006
Balzers

Fig.7


H2 = 32 nm
RJ, 900°C, 0.5h, DL
EHT = 5.00 kV Signal A = InLens WD = 3 mm ANM Mag = 150.00 K X 100nm
File Name = RJ-900-0_5h-150k-07.jpg Date :24 May 2006
Balzers