FIG.1

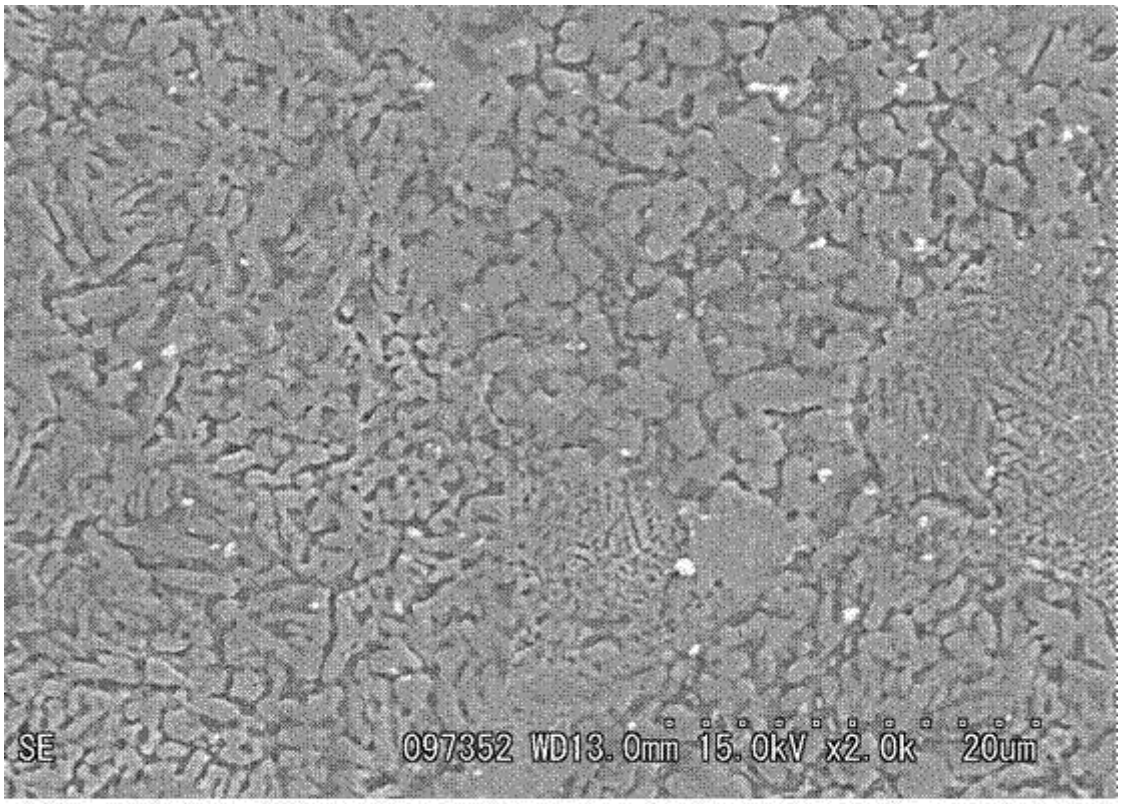


FIG.2

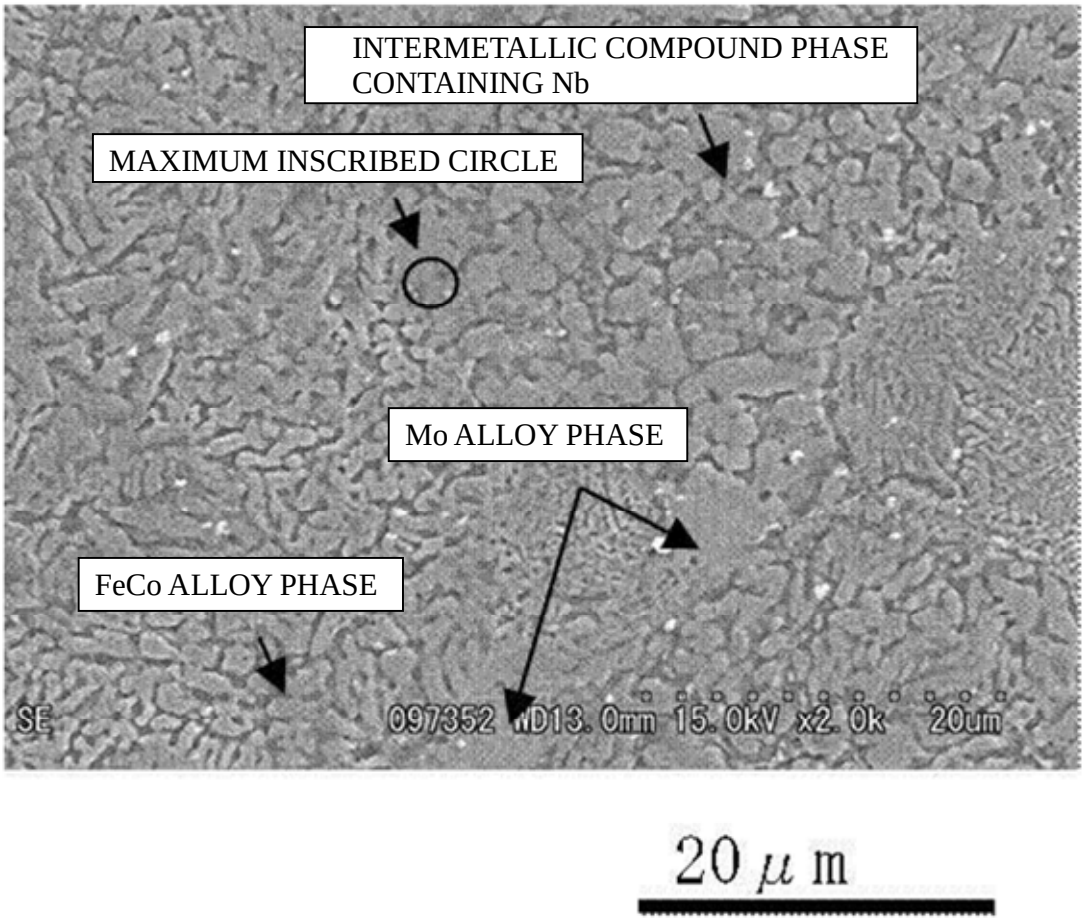
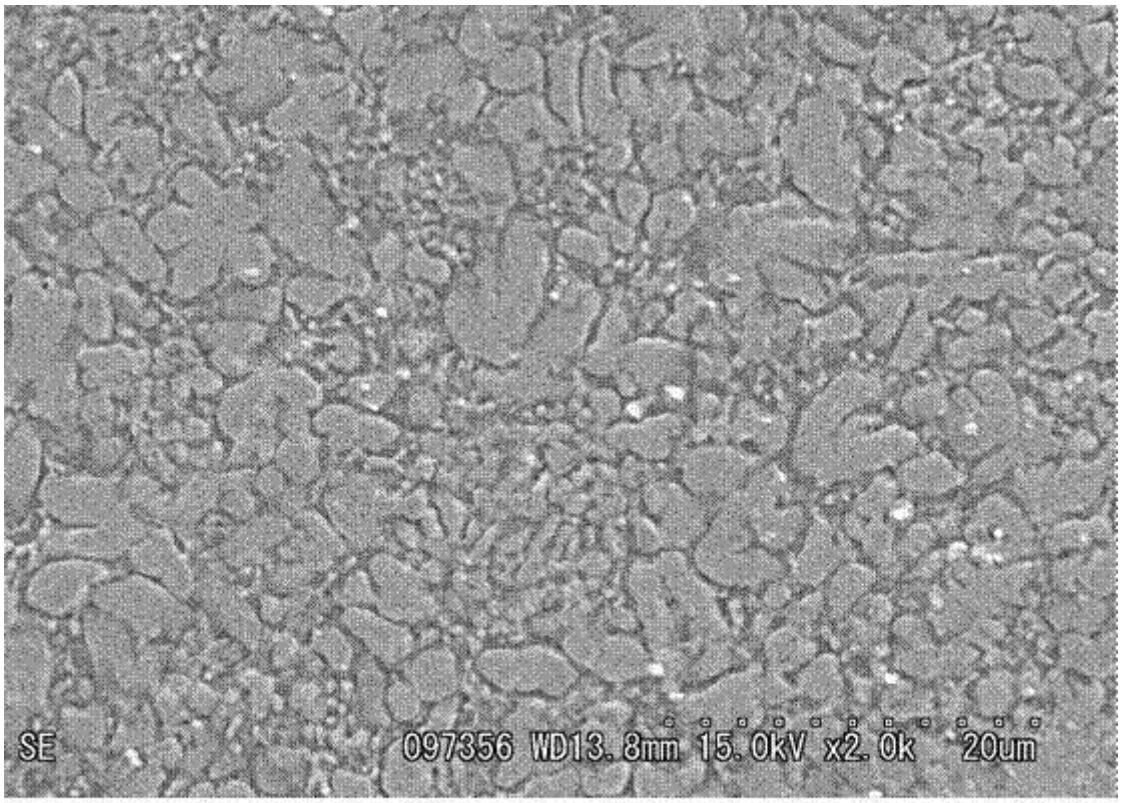

INTERMETALLIC COMPOUND PHASE CONTAINING Nb
MAXIMUM INSCRIBED CIRCLE
Mo ALLOY PHASE
FeCo ALLOY PHASE
SE
097352 WD13.0mm 15.0kV x2.0k 20um
20 μm

FIG.3



20 μm

FIG.4

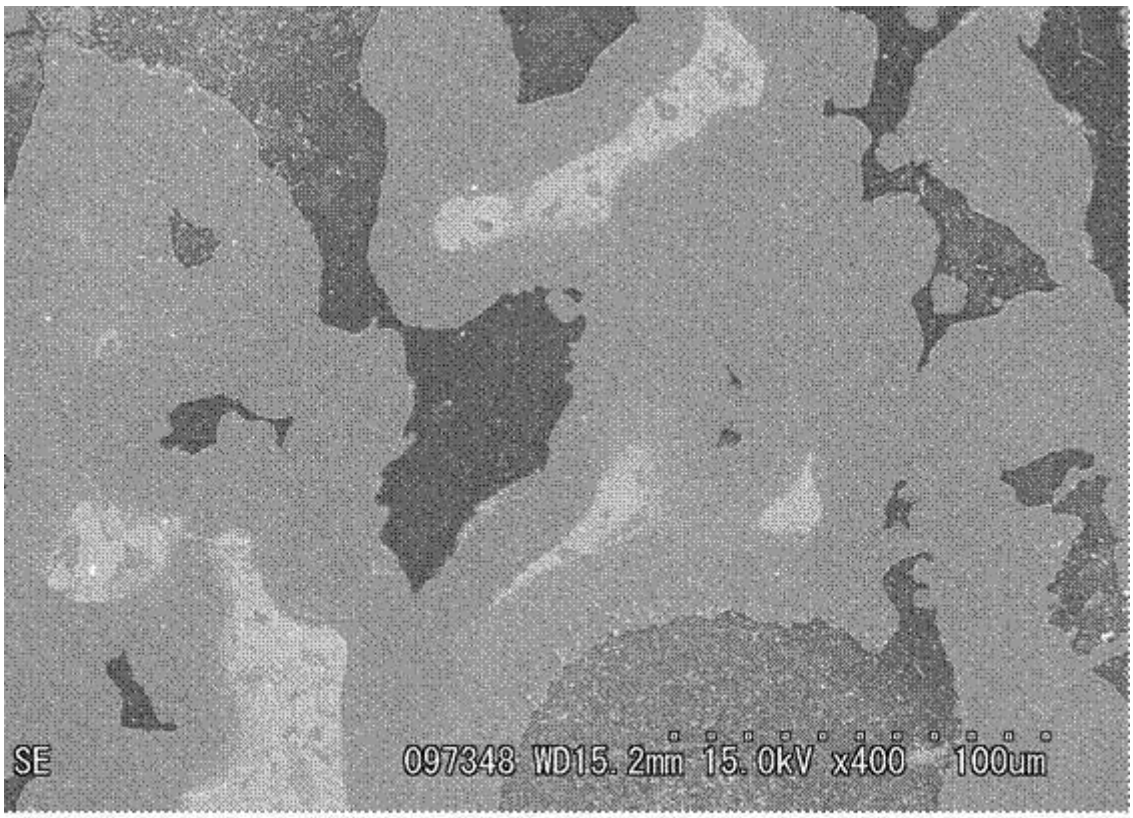


FIG.5

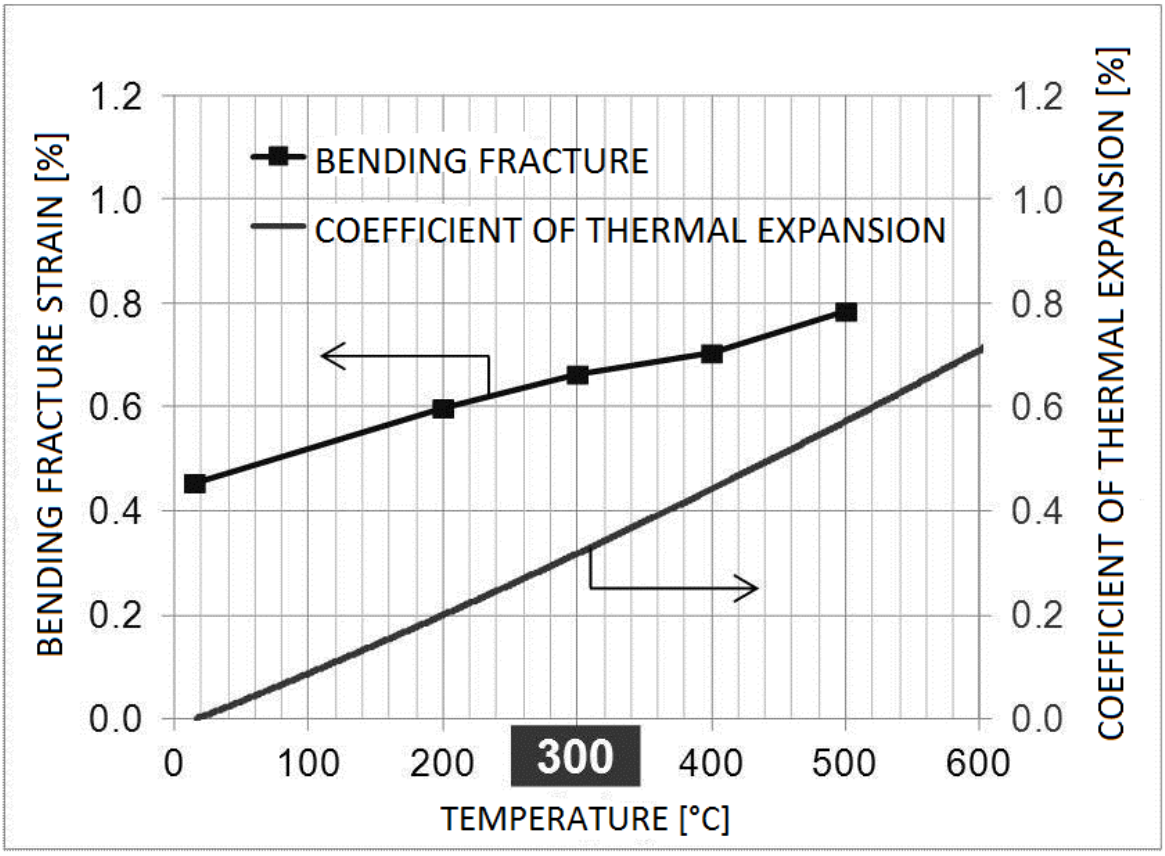

BENDING FRACTURE STRAIN [%]
COEFFICIENT OF THERMAL EXPANSION [%]
BENDING FRACTURE
COEFFICIENT OF THERMAL EXPANSION
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
TEMPERATURE [°C]

FIG.6

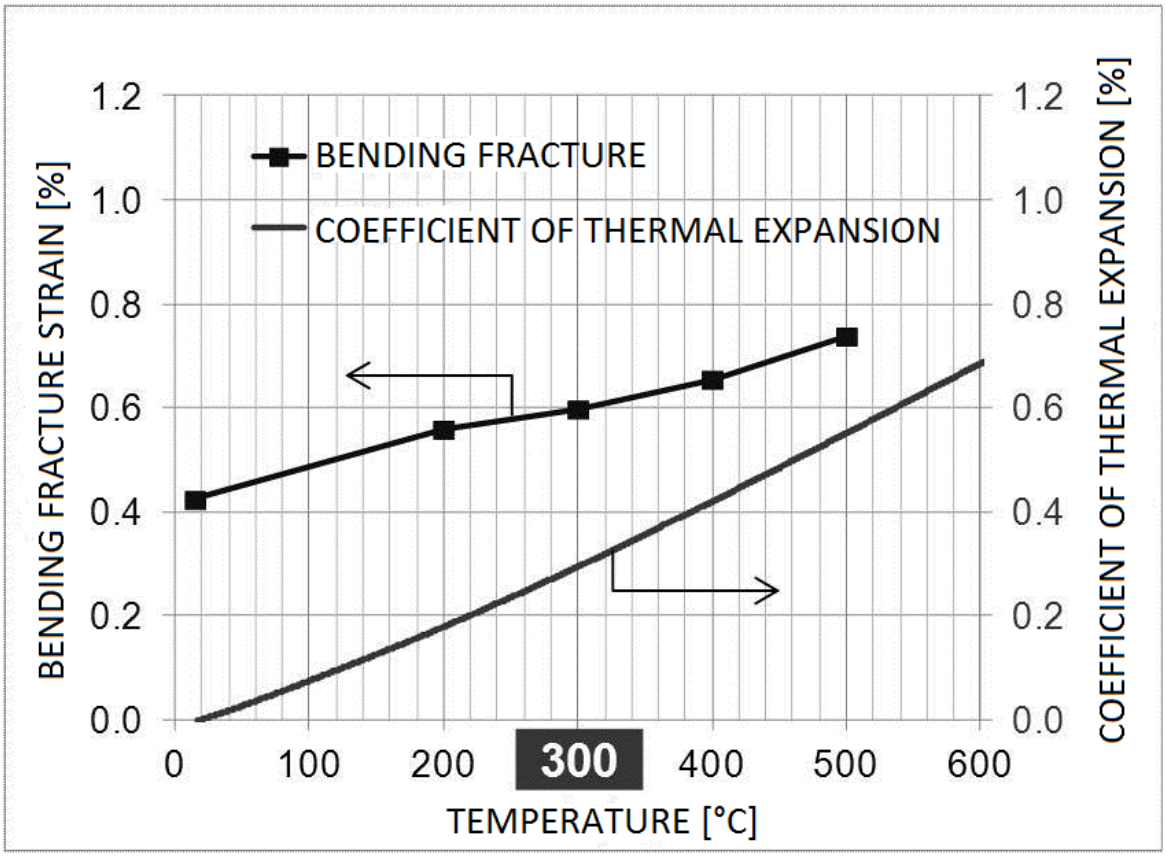

BENDING FRACTURE STRAIN [%]
COEFFICIENT OF THERMAL EXPANSION [%]
BENDING FRACTURE
COEFFICIENT OF THERMAL EXPANSION
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600
TEMPERATURE [°C]

FIG.7

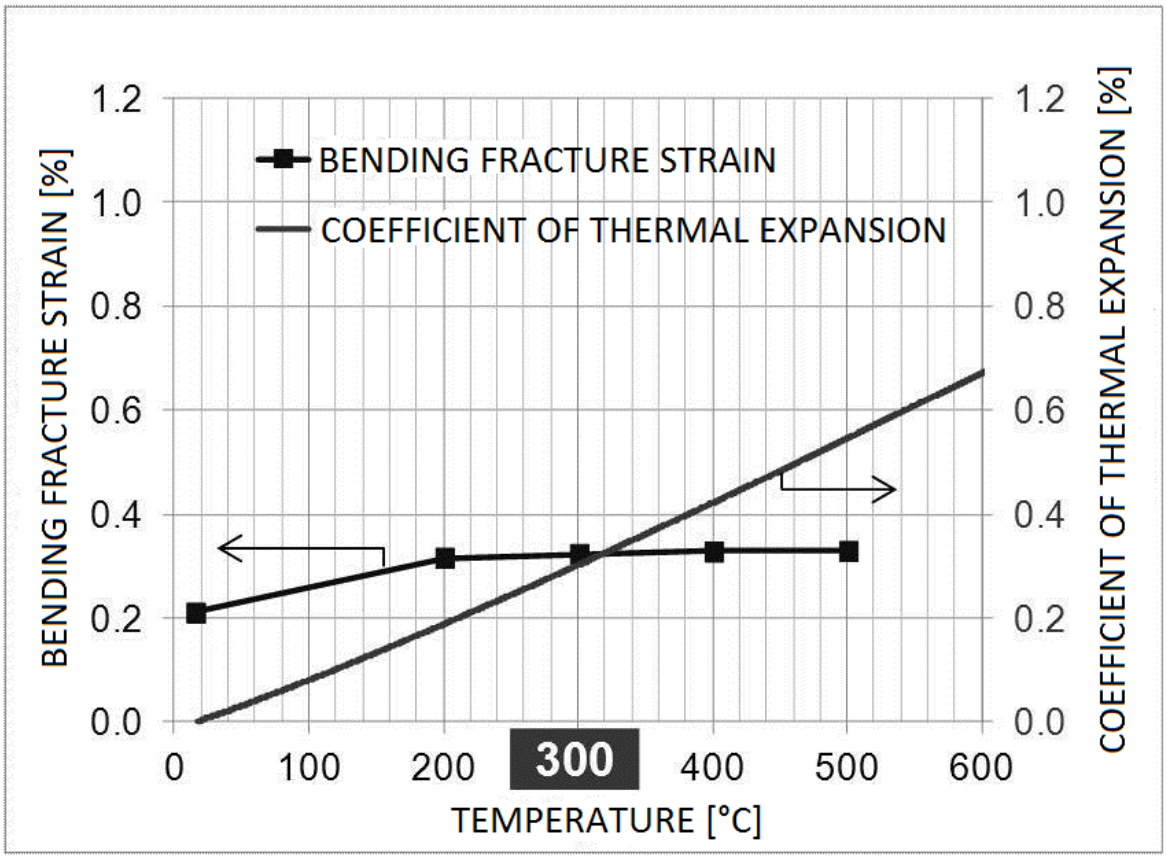

BENDING FRACTURE STRAIN
COEFFICIENT OF THERMAL EXPANSION
BENDING FRACTURE STRAIN [%]
COEFFICIENT OF THERMAL EXPANSION [%]
TEMPERATURE [°C]
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
100
200
300
400
500
600

FIG.8

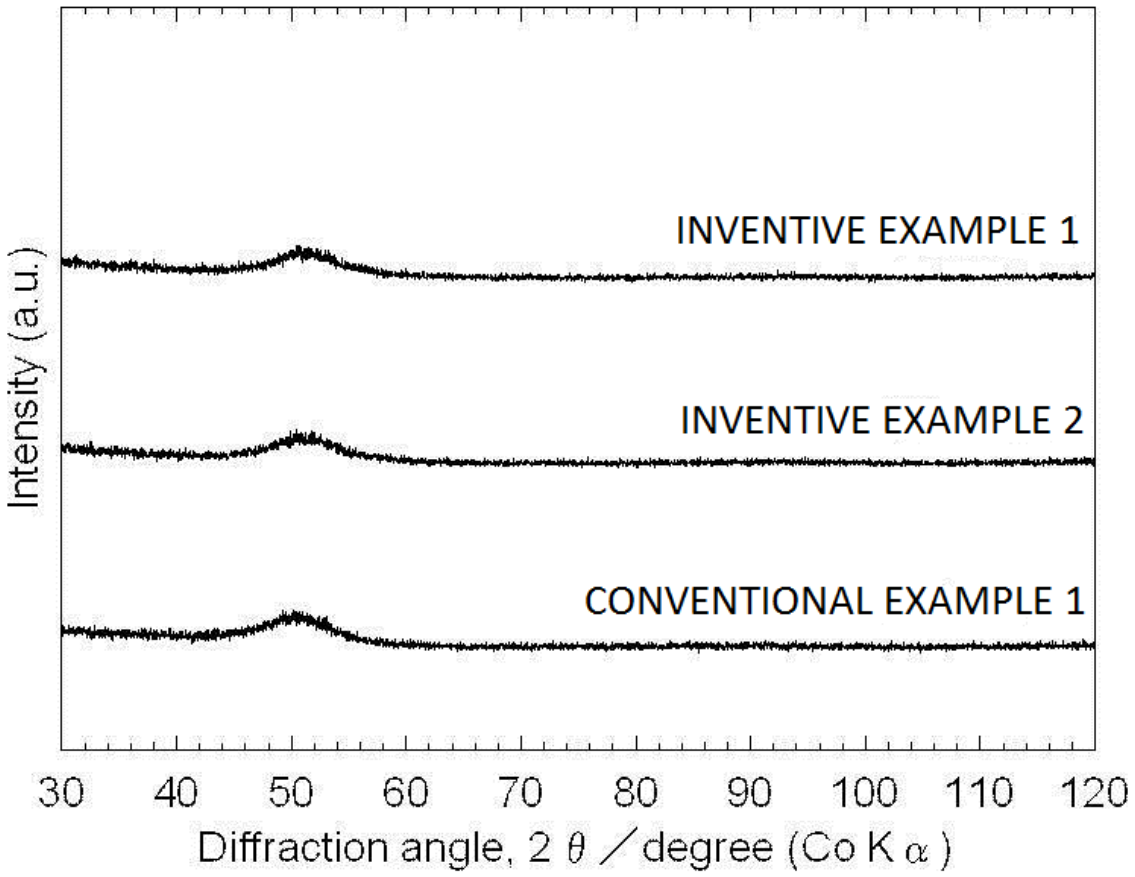
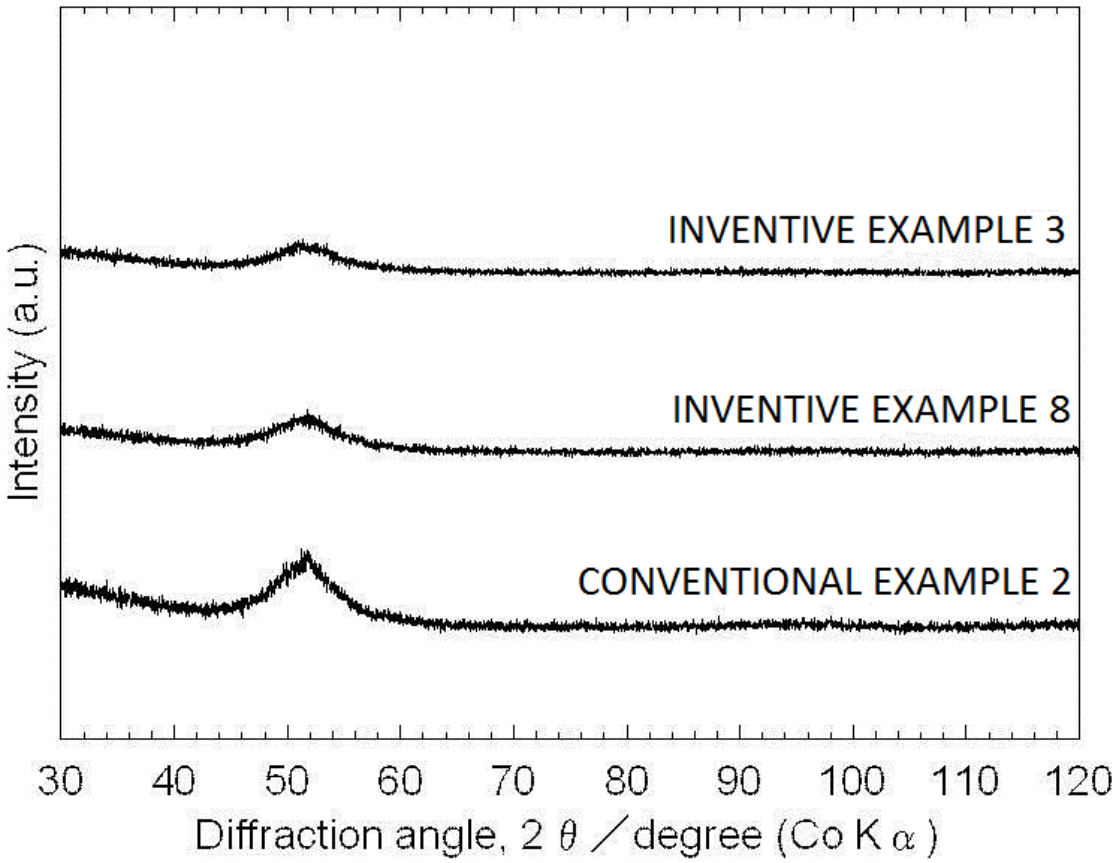

INVENTIVE EXAMPLE 1
INVENTIVE EXAMPLE 2
CONVENTIONAL EXAMPLE 1
Intensity (a.u.)
30
40
50
60
70
80
90
100
110
120
Diffraction angle, 2 θ ／degree (Co K α)

FIG.9


INVENTIVE EXAMPLE 3
INVENTIVE EXAMPLE 8
CONVENTIONAL EXAMPLE 2
Intensity (a.u.)
30
40
50
60
70
80
90
100
110
120
Diffraction angle, 2 θ ／degree (Co K α)