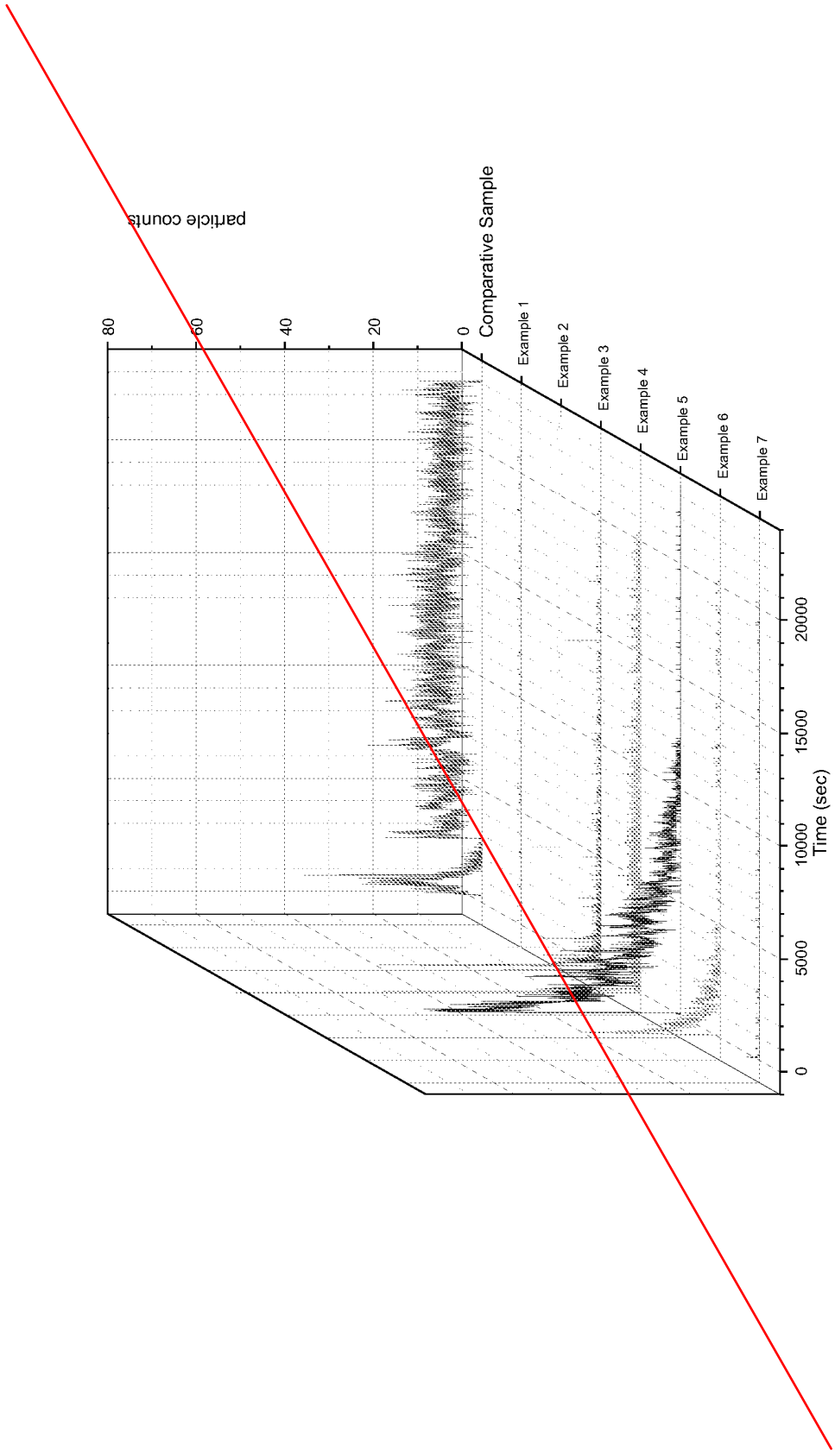

particle counts
80
60
40
20
0
Comparative Sample
Example 1
Example 2
Example 3
Example 4
Example 5
Example 6
Example 7
0
5000
10000
15000
20000
Time (sec)

FIG. 1

Particle Counts
80
60
40
20
0
Comparative Sample
Example 1
Example 2
Example 3
Example 4
Example 5
Example 6
Example 7
0
5000
10000
15000
20000
Time (sec)

FIG.1

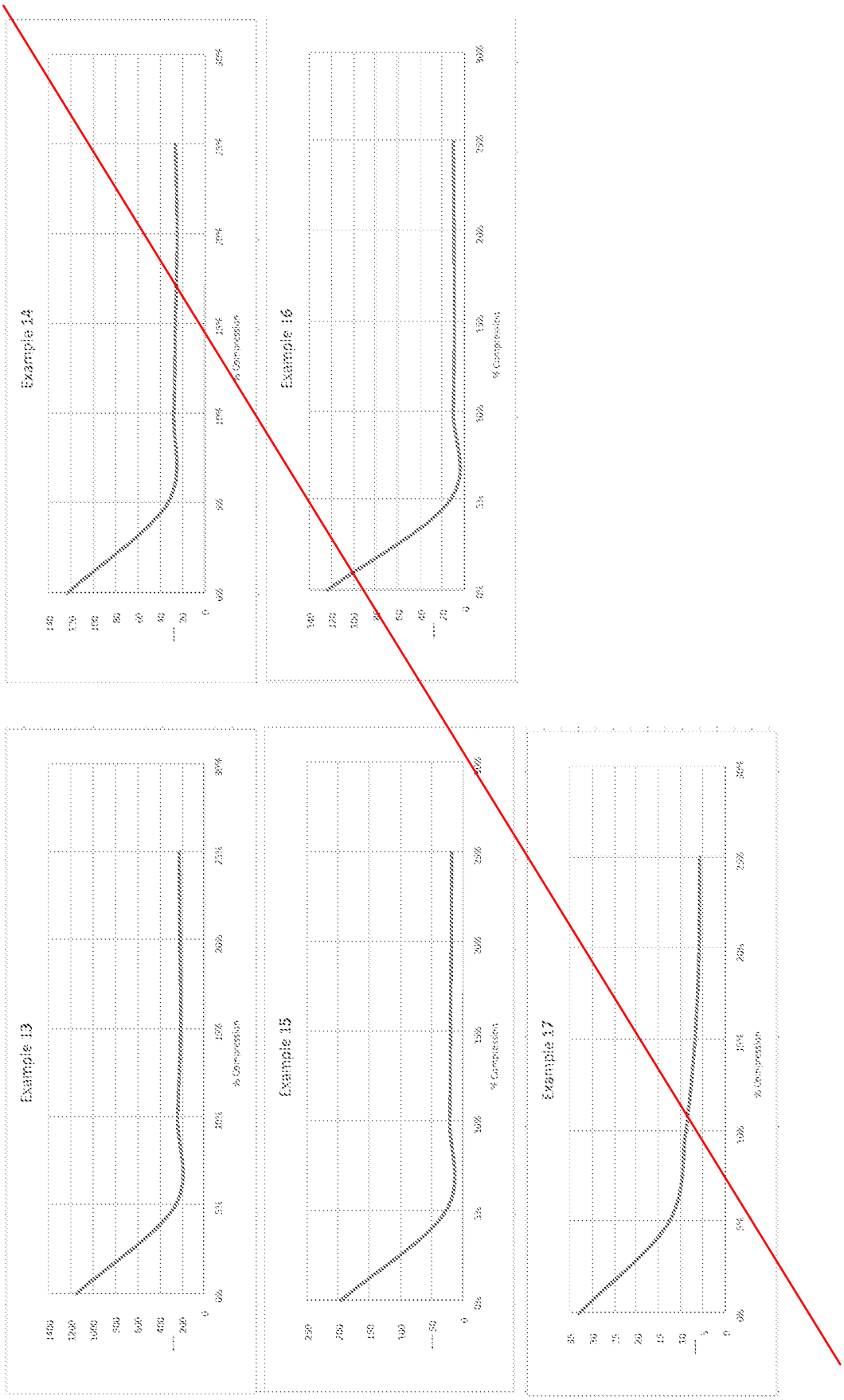
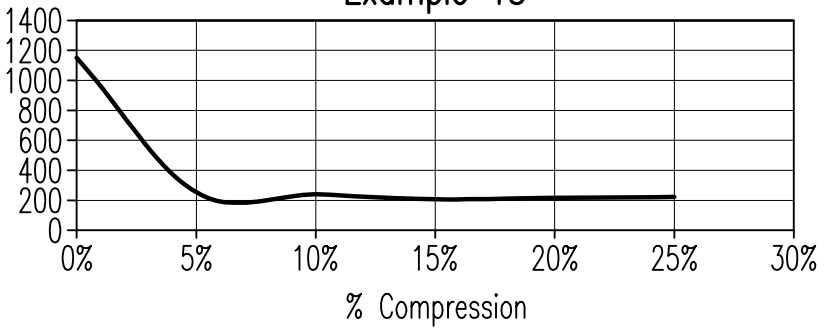
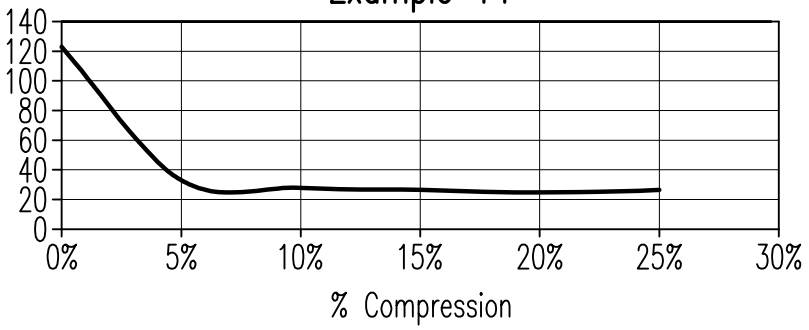

Example 13
Example 14
Example 15
Example 16
Example 17
% Compression

FIG. 2

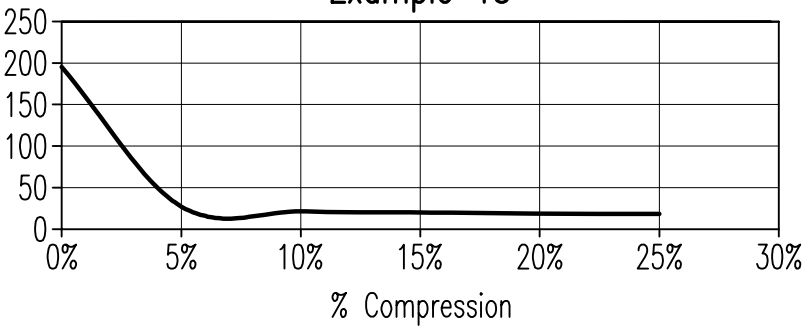
Example 13



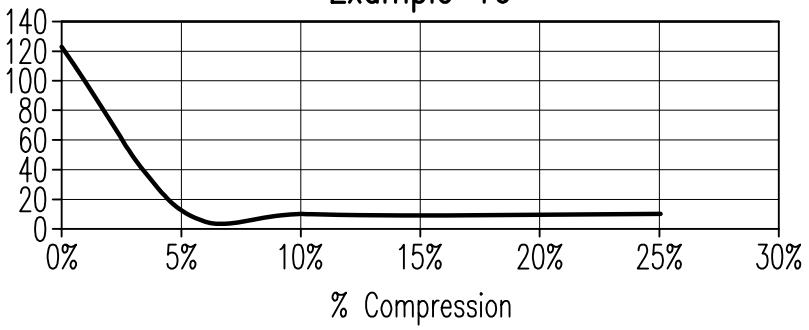
Example 14



Example 15



Example 16



Example 17

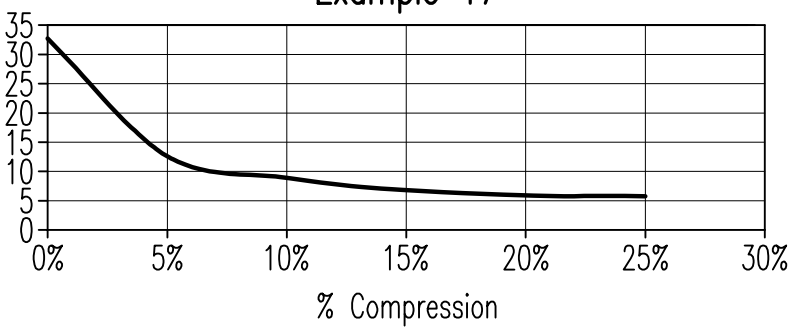


FIG.2

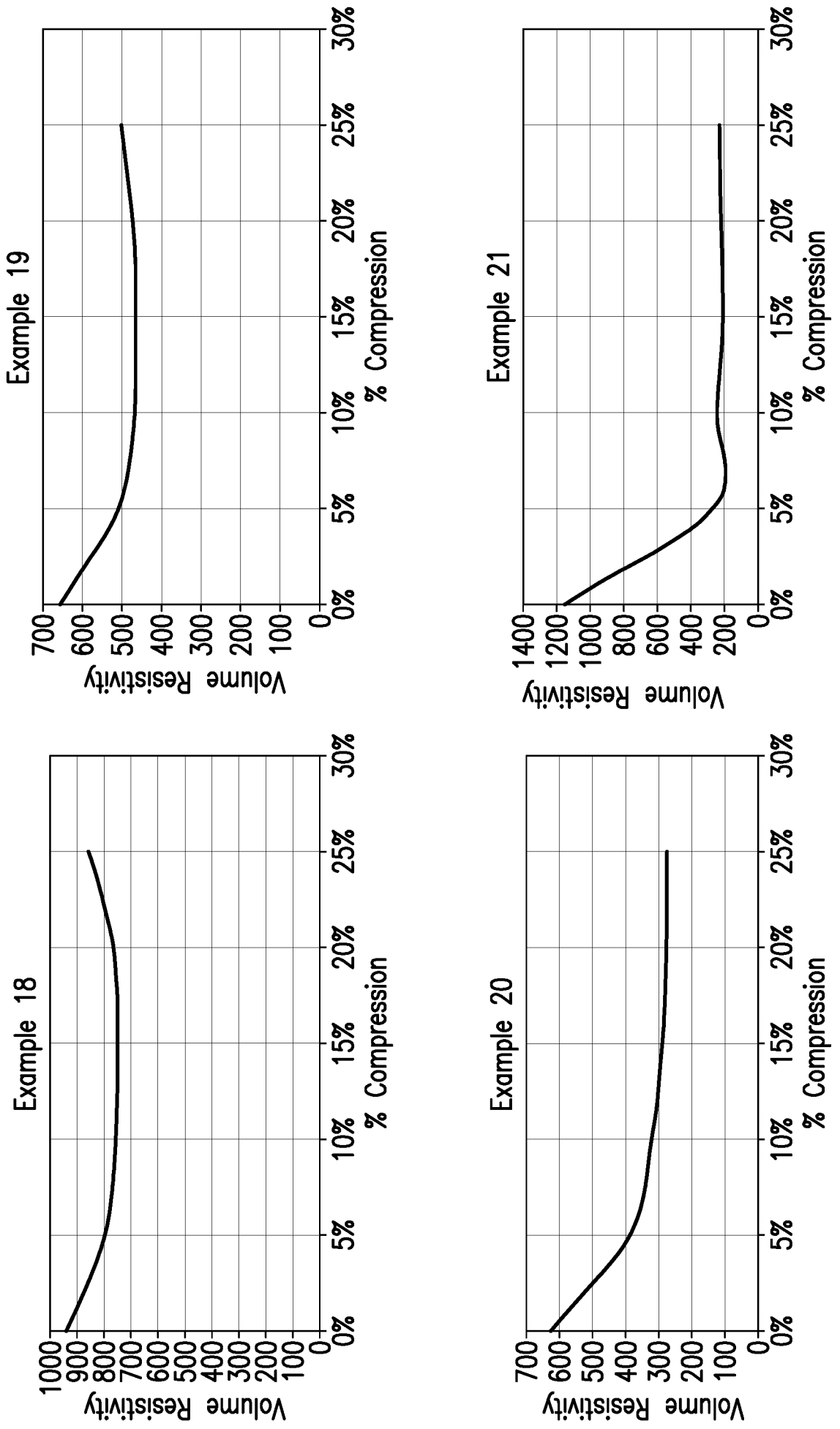

Example 19
Volume Resistivity
% Compression
Example 21
Volume Resistivity
% Compression
Example 18
Volume Resistivity
% Compression
Example 20
Volume Resistivity
% Compression

FIG.3

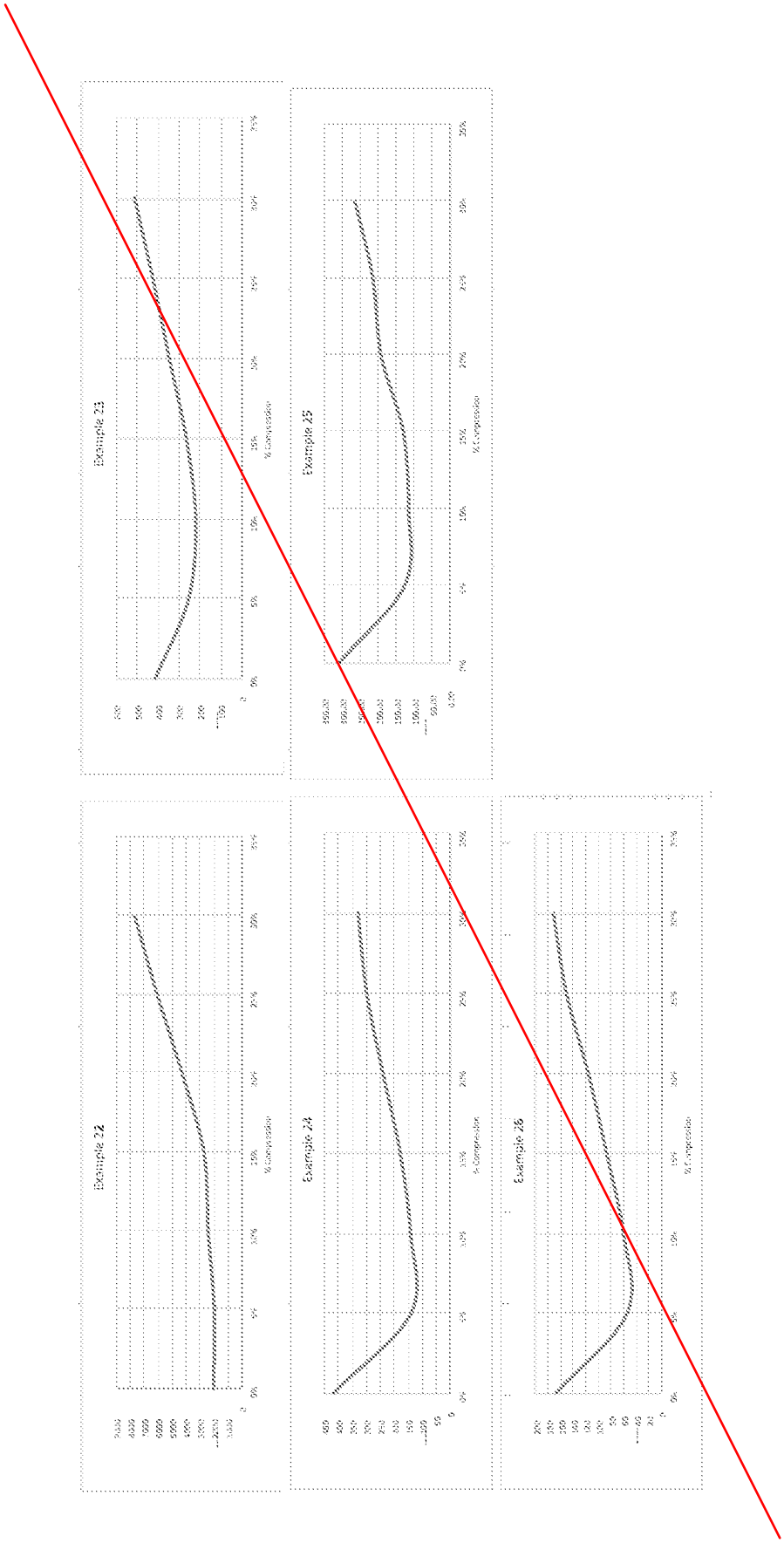
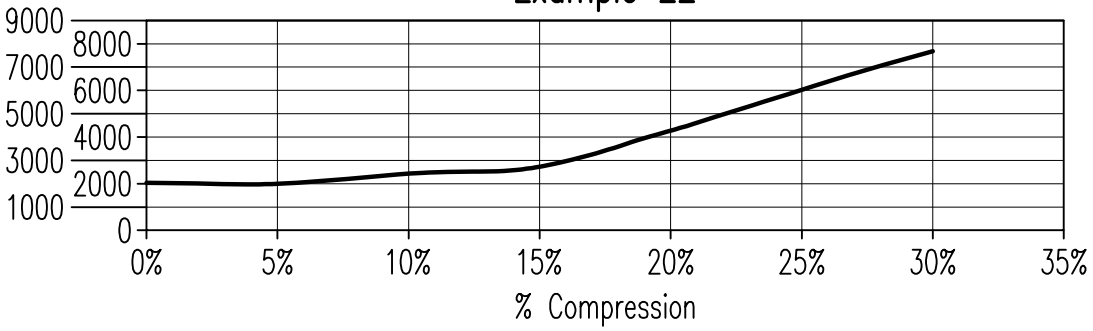
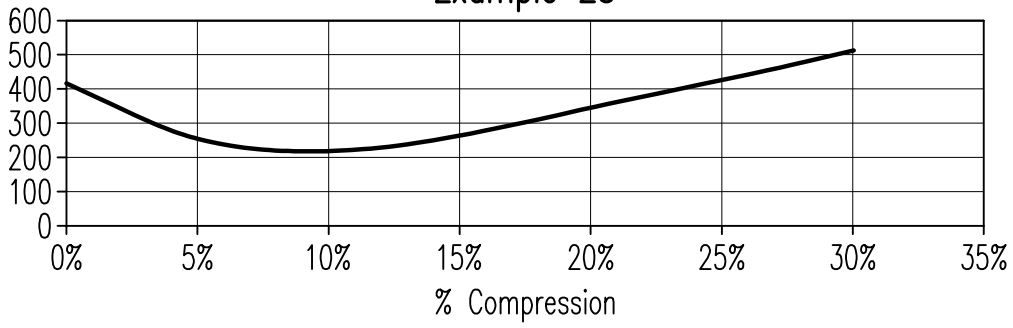


FIG. 4

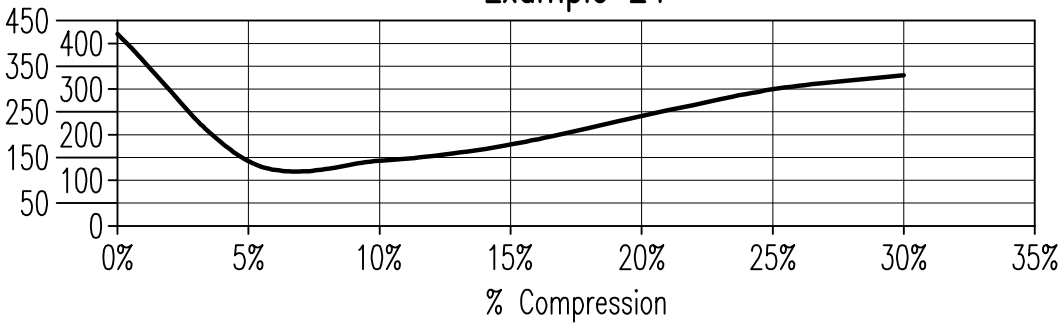
Example 22



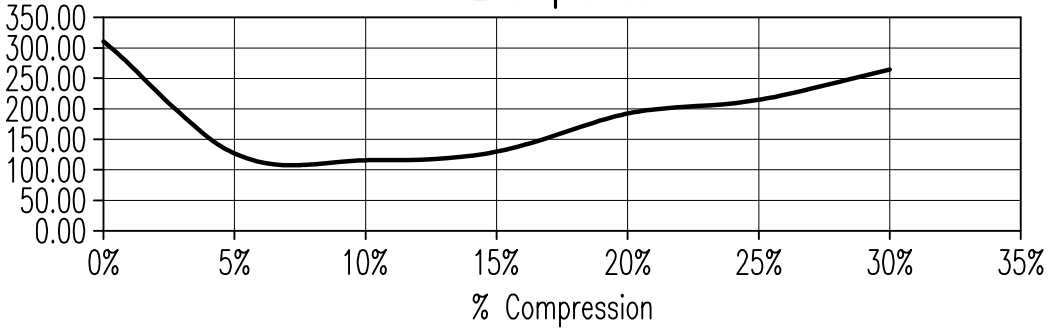
Example 23



Example 24



Example 25



Example 26

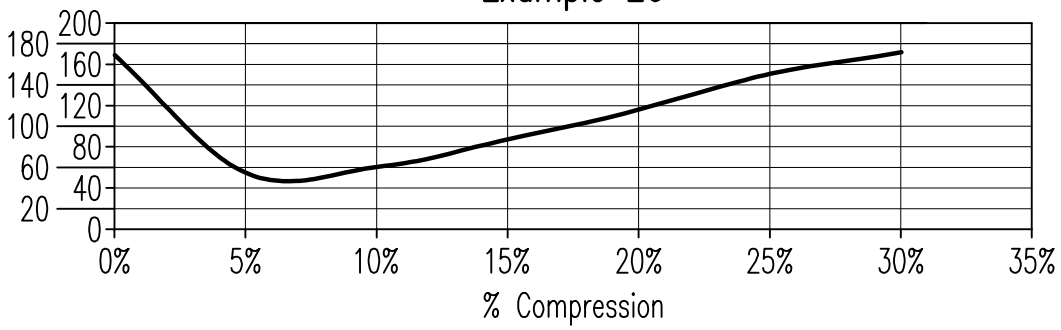


FIG.4

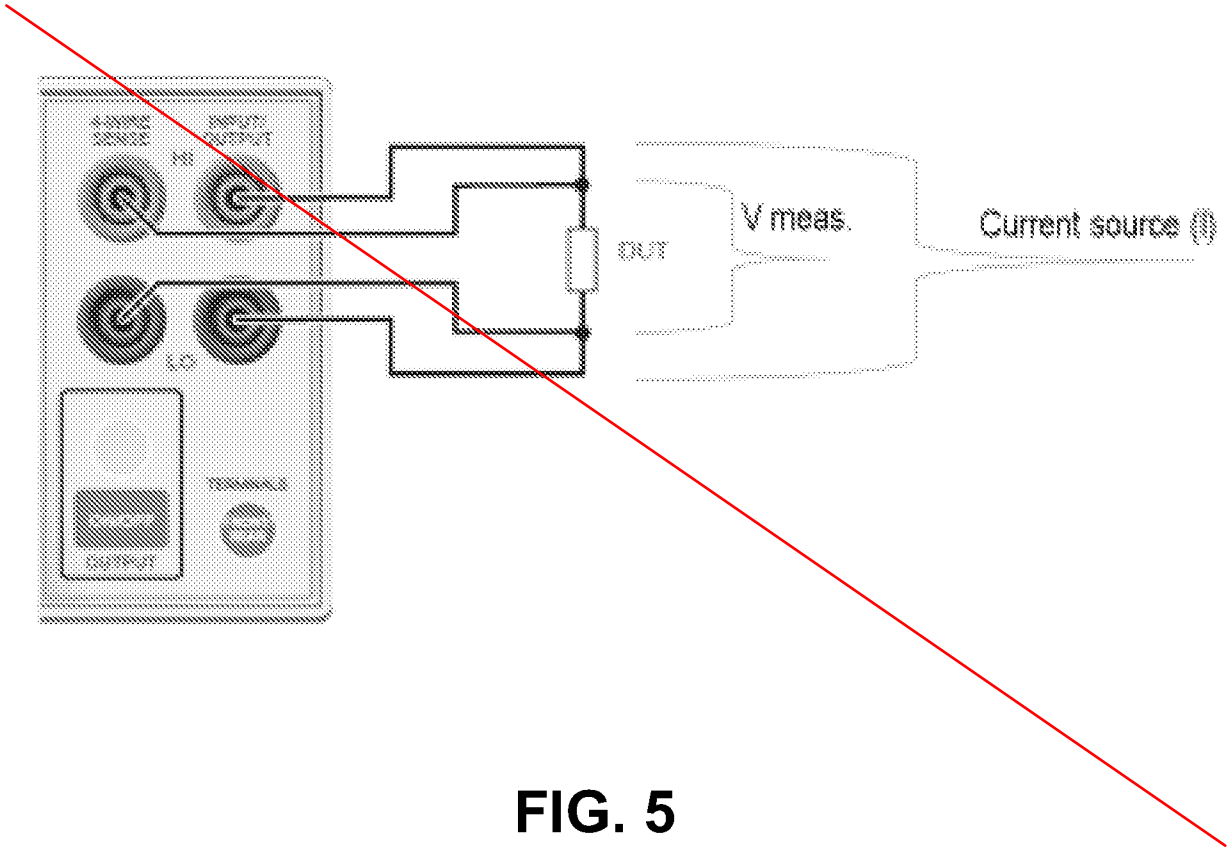


FIG. 5

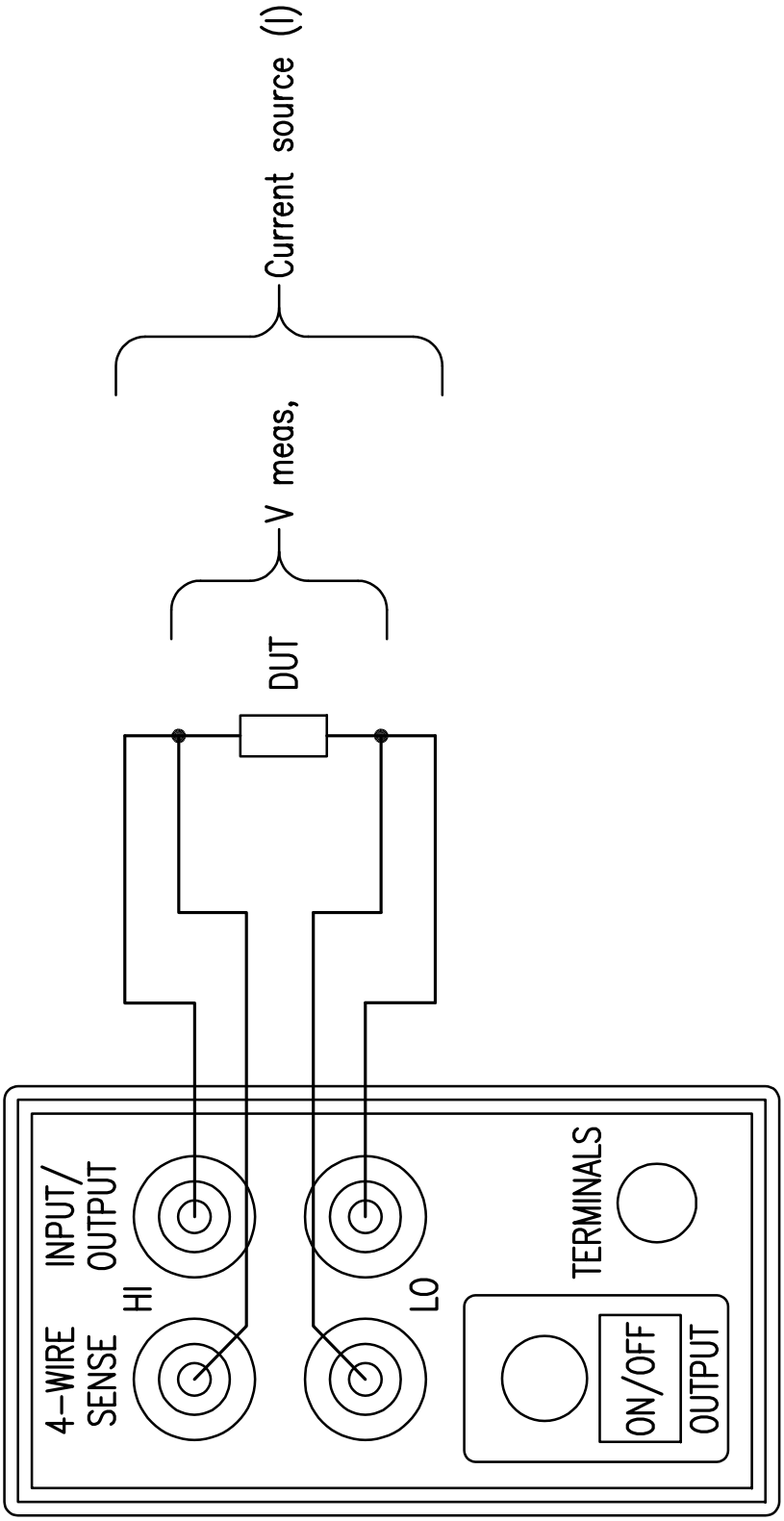

Current source (I)
V meas,
DUT
4-WIRE SENSE
INPUT/ OUTPUT HI
LO
TERMINALS
ON/OFF OUTPUT

FIG.5

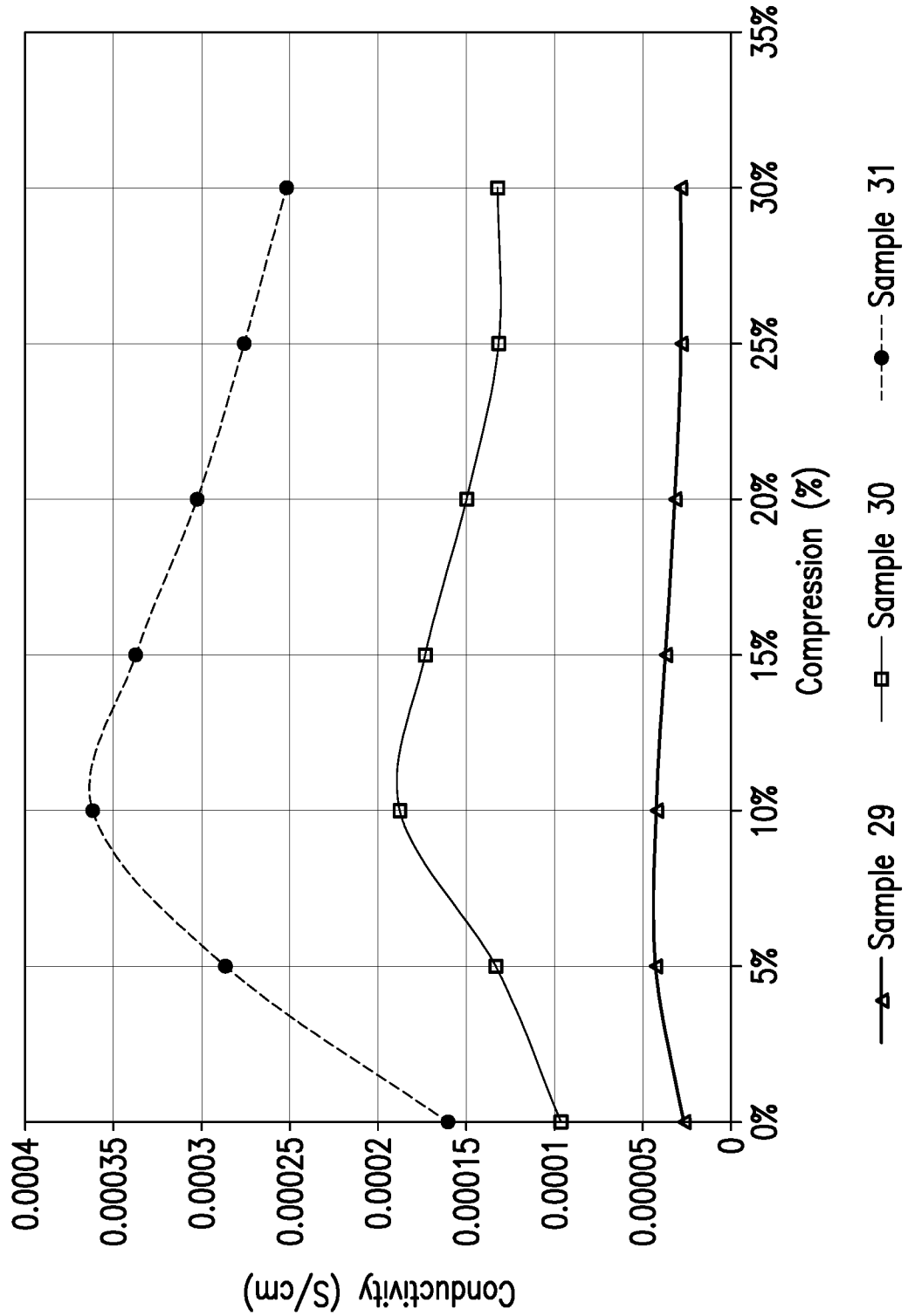

Conductivity (S/cm)
0.0004
0.00035
0.0003
0.00025
0.0002
0.00015
0.0001
0.00005
0
0%
5%
10%
15%
20%
25%
30%
35%
Compression (%)
Sample 29
Sample 30
Sample 31

FIG.6

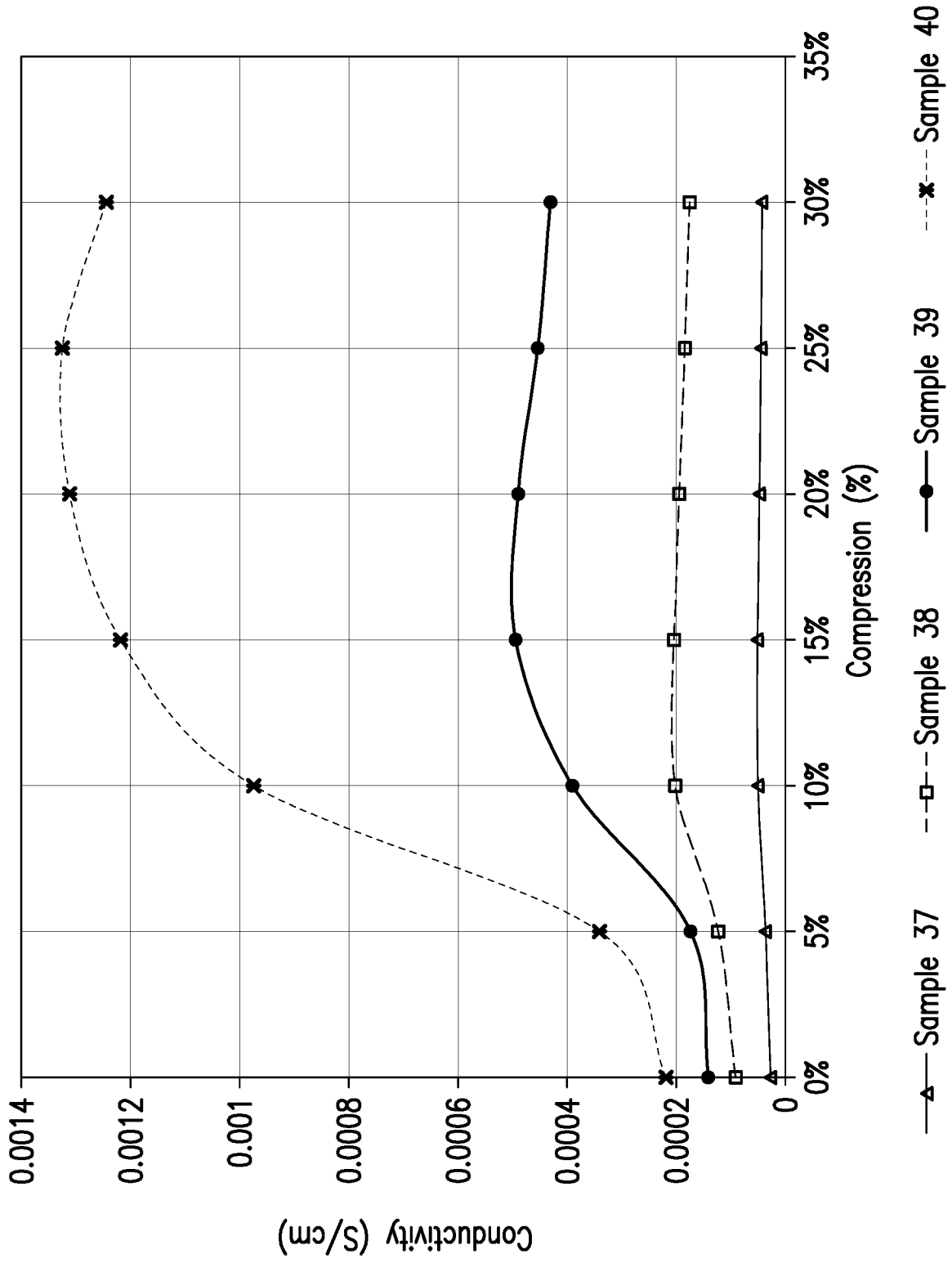

Conductivity (S/cm)
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
0%
5%
10%
15%
20%
25%
30%
35%
Compression (%)
Sample 37
Sample 38
Sample 39
Sample 40

FIG.7

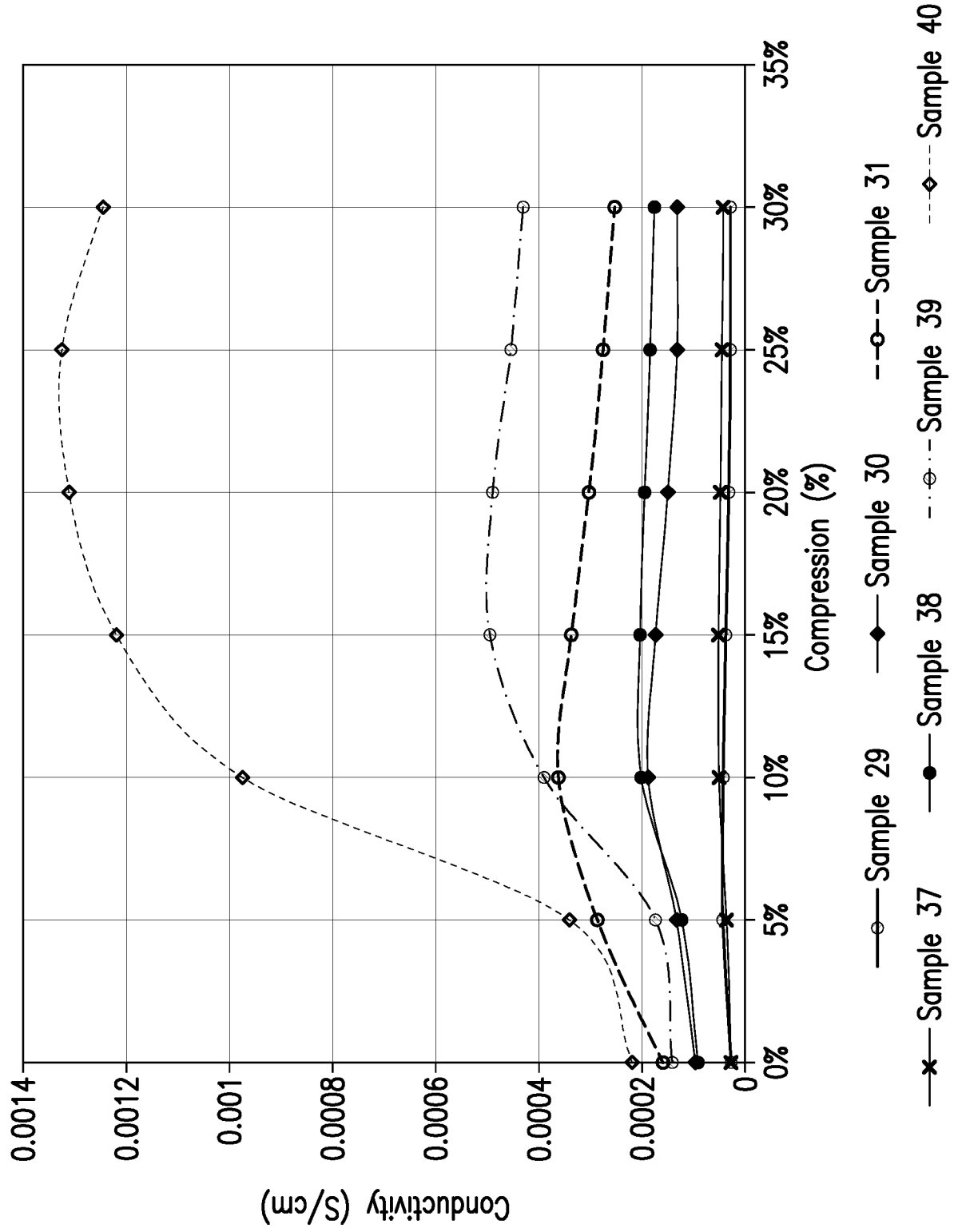

Conductivity (S/cm)
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
0%
5%
10%
15%
20%
25%
30%
35%
Compression (%)
Sample 29
Sample 30
Sample 31
Sample 37
Sample 38
Sample 39
Sample 40

FIG.8

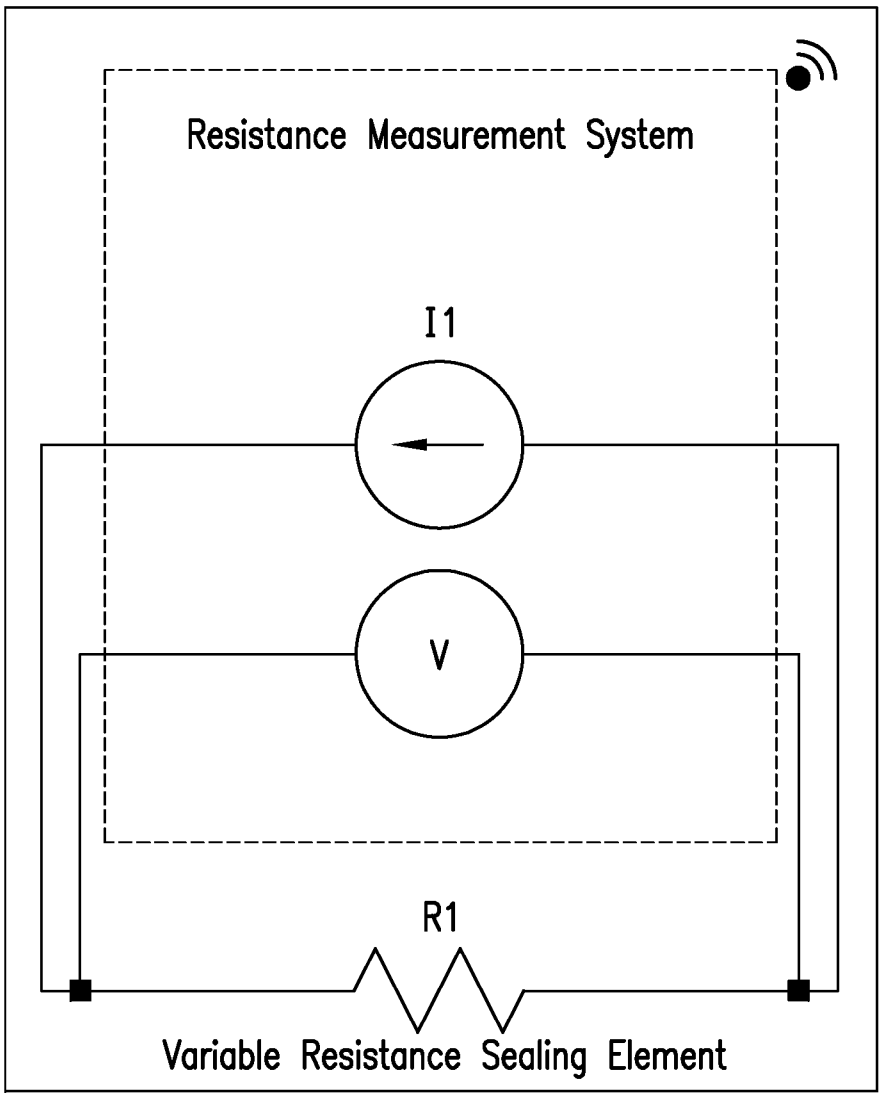

Resistance Measurement System
I1
V
R1
Variable Resistance Sealing Element

FIG.9