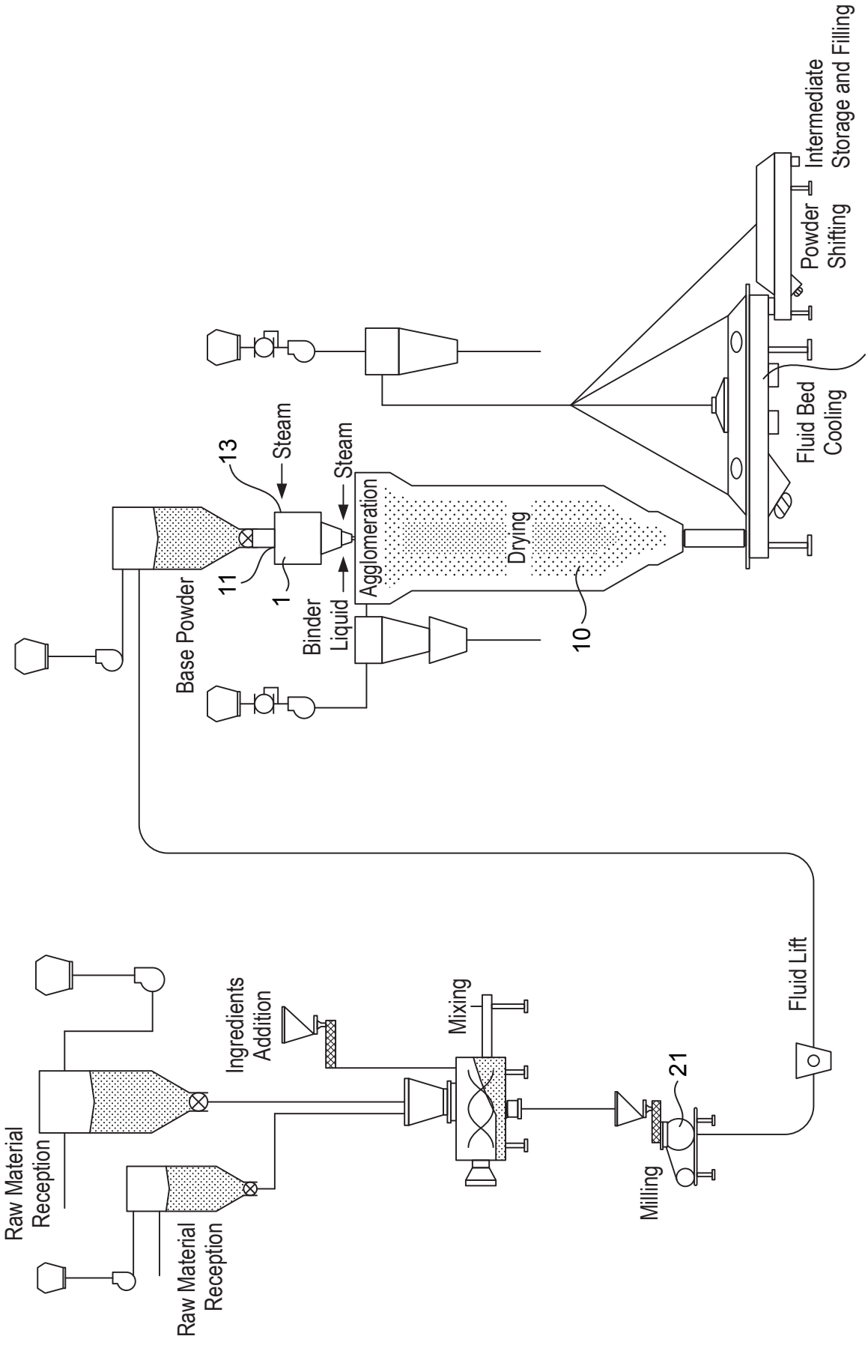

Raw Material Reception
Raw Material Reception
Ingredients Addition
Mixing
Milling
21
Fluid Lift
Base Powder
11
13
Steam
1
Binder Liquid
Steam
Agglomeration
Drying
10
Fluid Bed Cooling
20
Powder Shifting
Intermediate Storage and Filling

FIG. 1

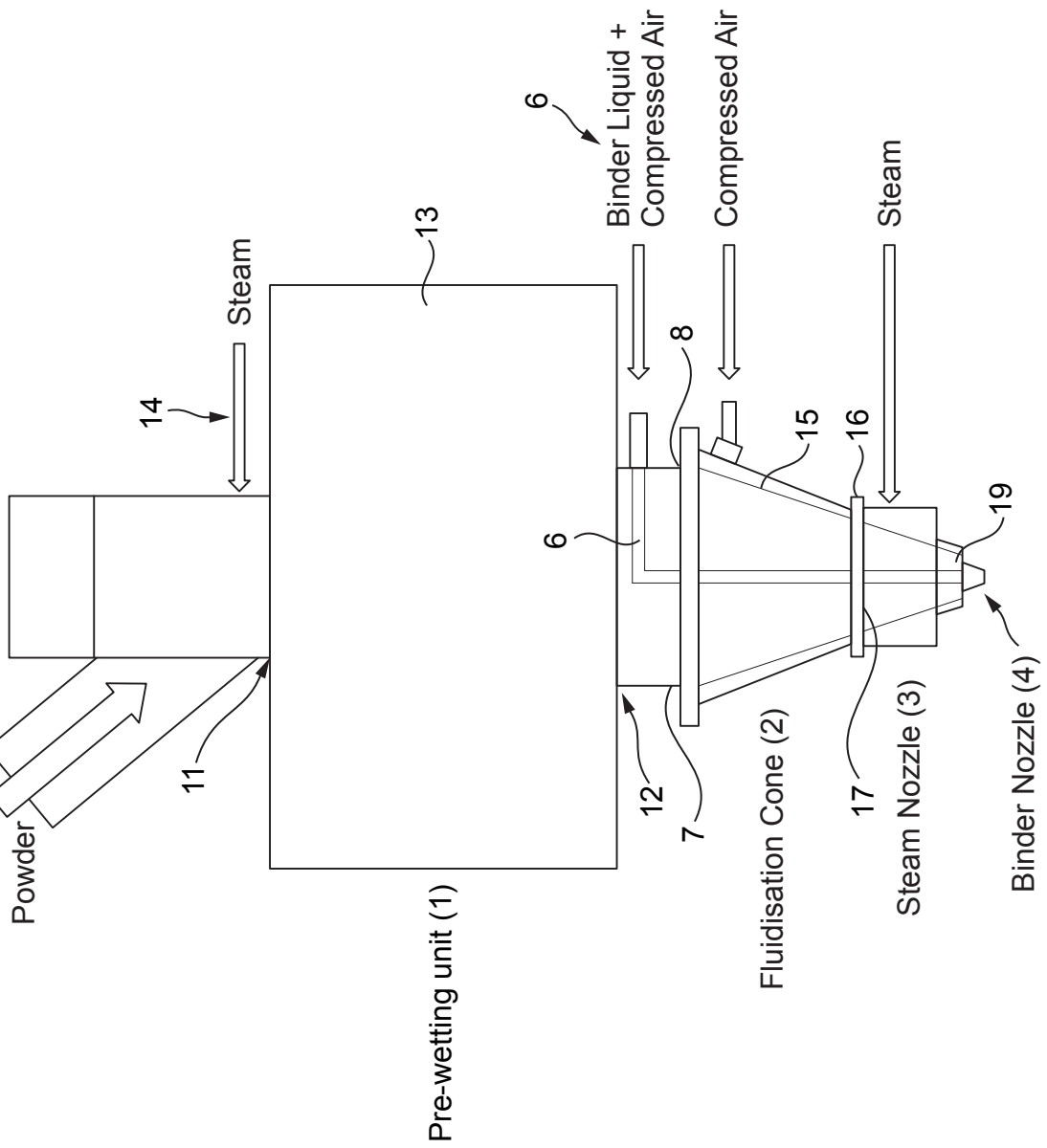
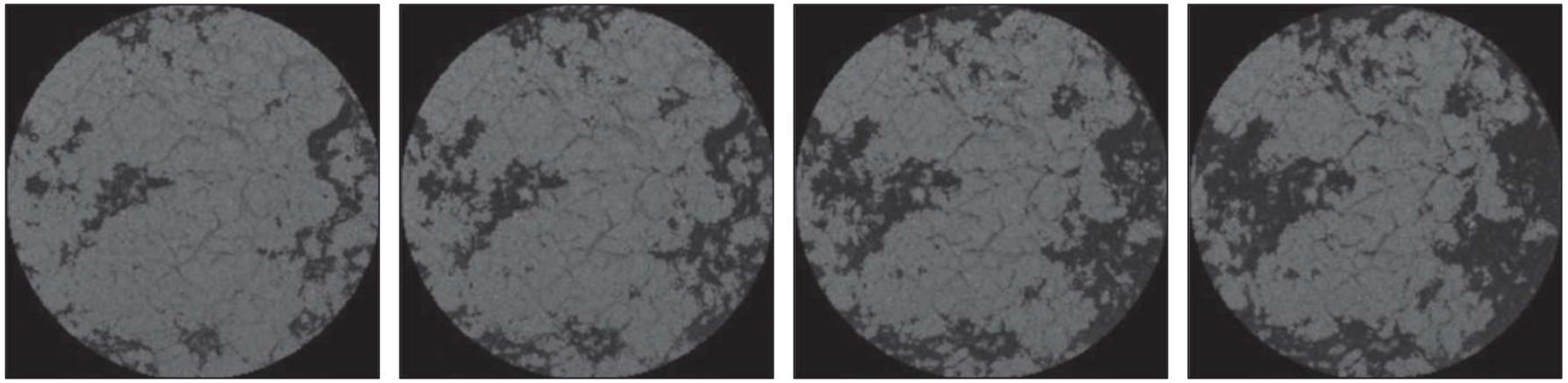

Powder
11
Steam
14
13
Pre-wetting unit (1)
6
Binder Liquid +
Compressed Air
Compressed Air
8
6
12
7
15
16
17
Fluidisation Cone (2)
Steam
Steam Nozzle (3)
19
Binder Nozzle (4)

FIG. 2

Test Sample Produced with Conventional Steam Agglomeration Process



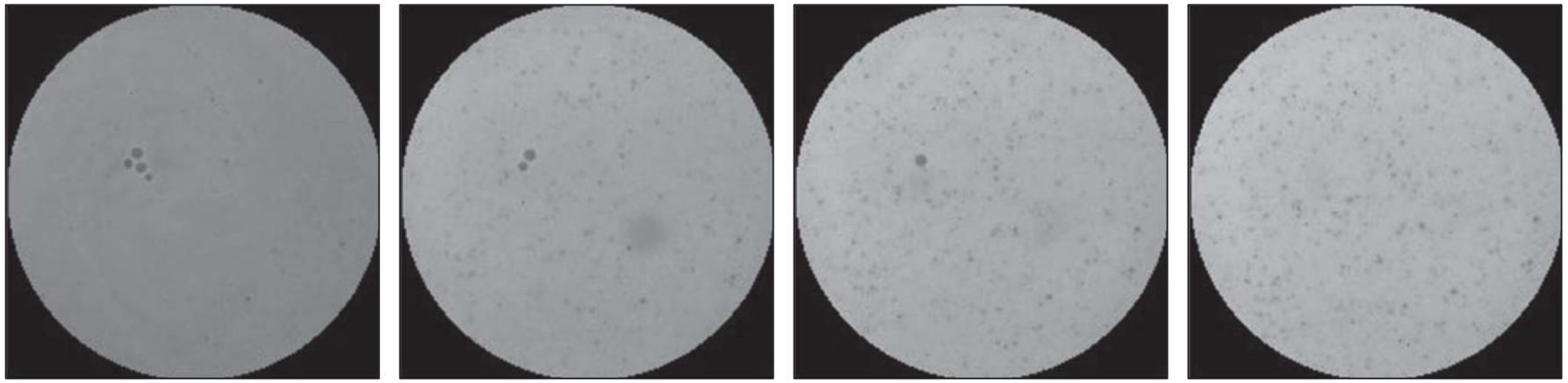
0001_M03_UP_2020_06_18 10_34_21_h4_SpCorr_D65_mask.png

0001_M03_UP_2020_06_18 10_35_21_h4_SpCorr_D65_mask.png

0001_M03_UP_2020_06_18 10_36_21_h5_SpCorr_D65_mask.png

0001_M03_UP_2020_06_18 10_37_21_h4_SpCorr_D65_mask.png

Test Sample Produced with the Method According to the Invention



0001_M03_UP_2020_06_15 16_15_49_h9_SpCorr_D65_mask.png

0001_M03_UP_2020_06_15 16_16_49_h9_SpCorr_D65_mask.png

0001_M03_UP_2020_06_15 16_17_49_h9_SpCorr_D65_mask.png

0001_M03_UP_2020_06_15 16_18_49_h9_SpCorr_D65_mask.png

FIG. 3

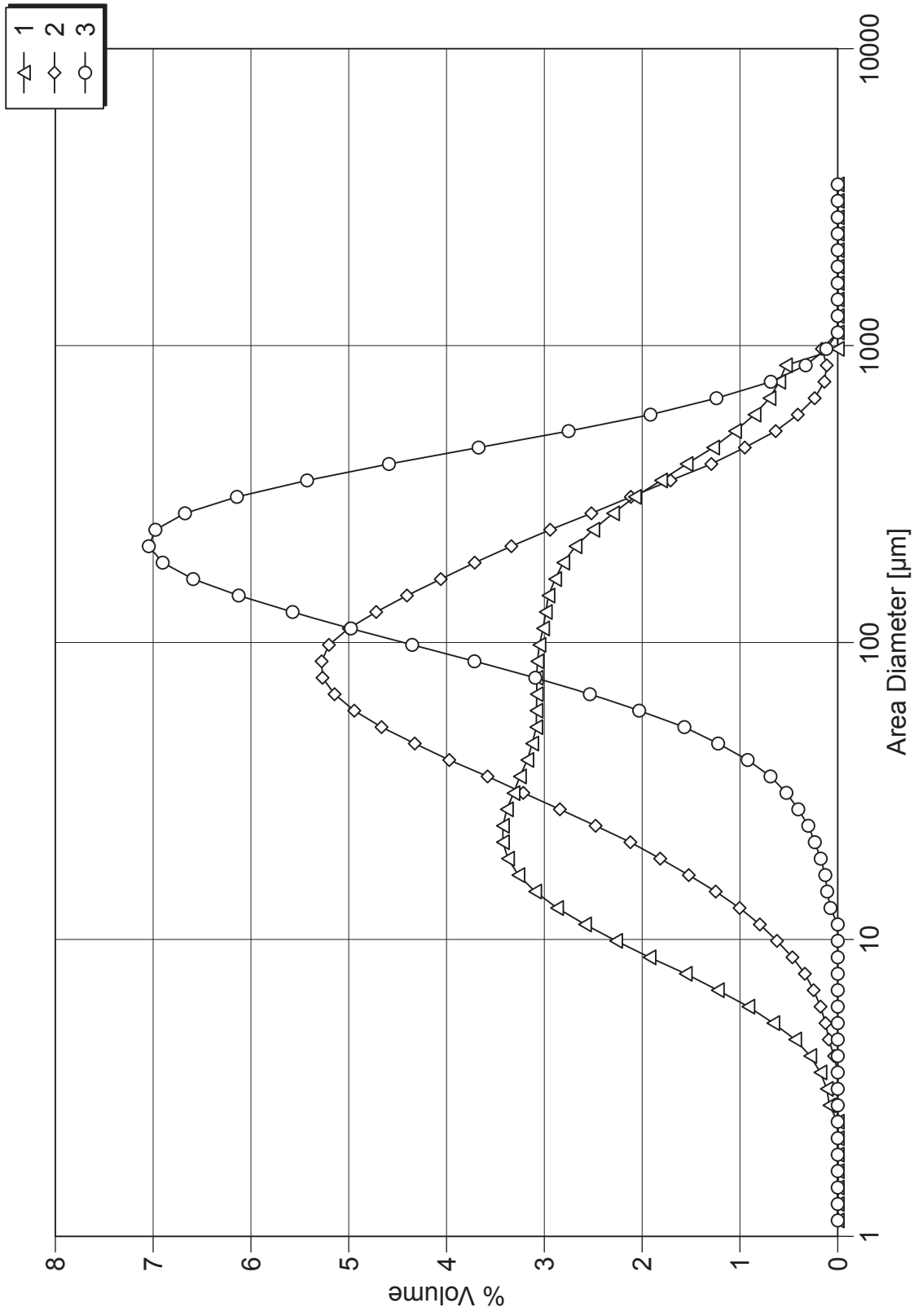


FIG. 4

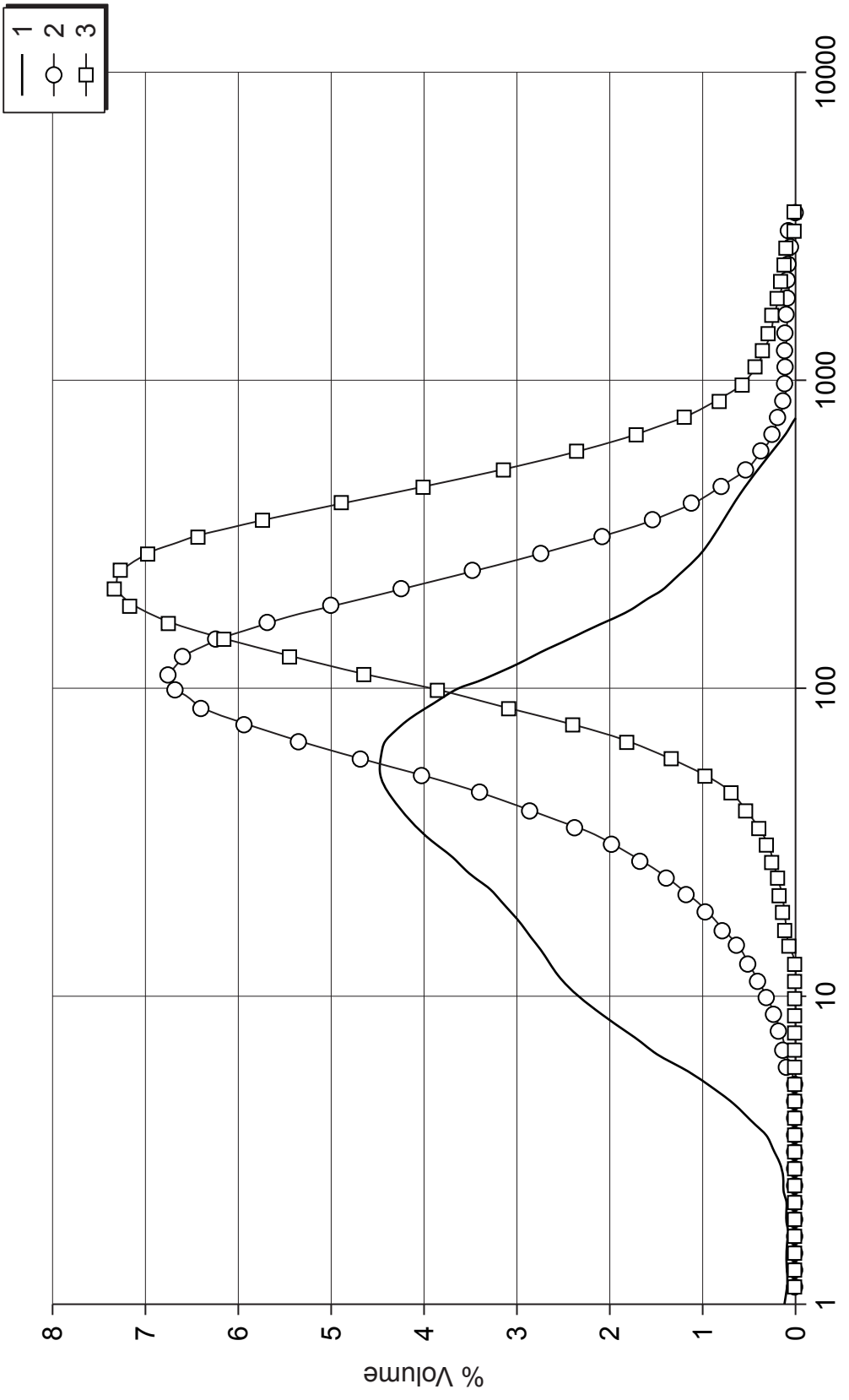


FIG. 5

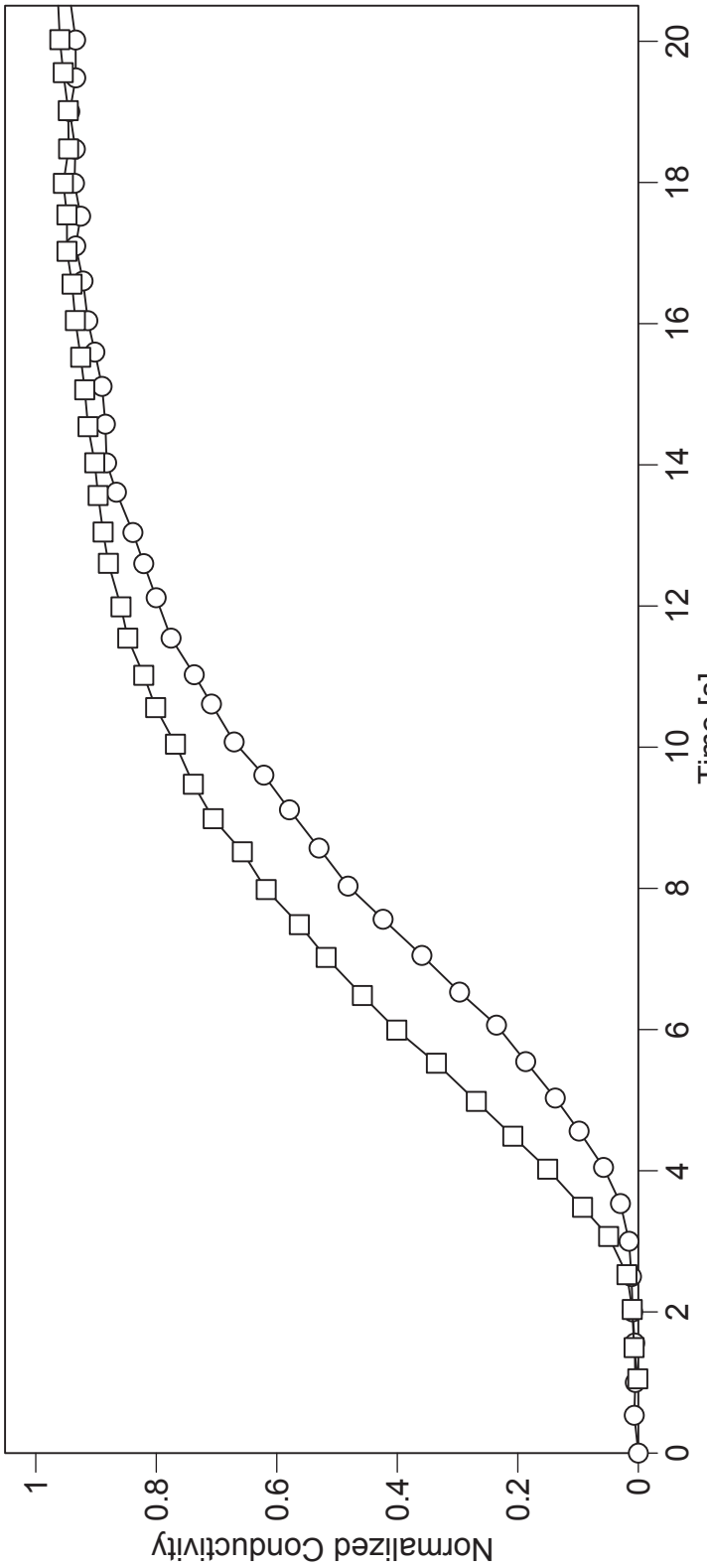

Normalized Conductivity
0
0.2
0.4
0.6
0.8
1
0
2
4
6
8
10
12
14
16
18
20
Time [s]

FIG. 6



2



1

FIG. 7