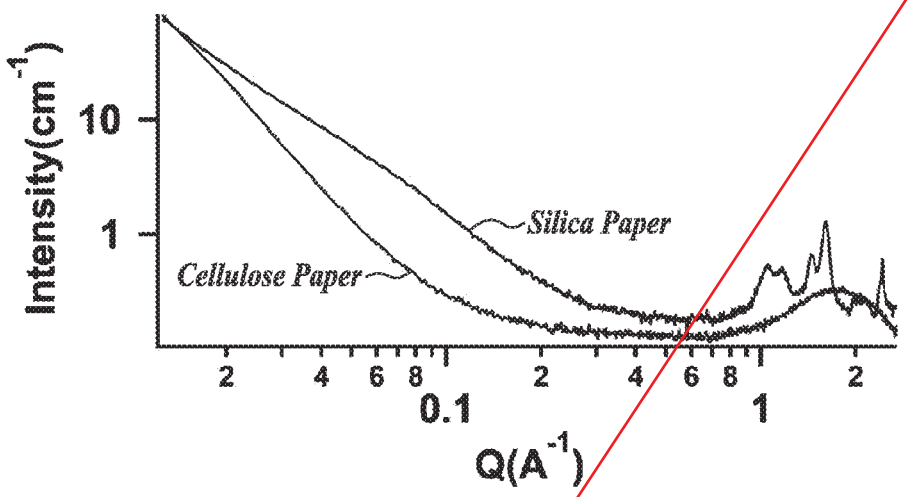
Intensity(cm-1)
10
1
Silica Paper
Cellulose Paper
2
4
6
8
0.1
2
4
6
8
1
2
Q(A-1)

FIG. 12

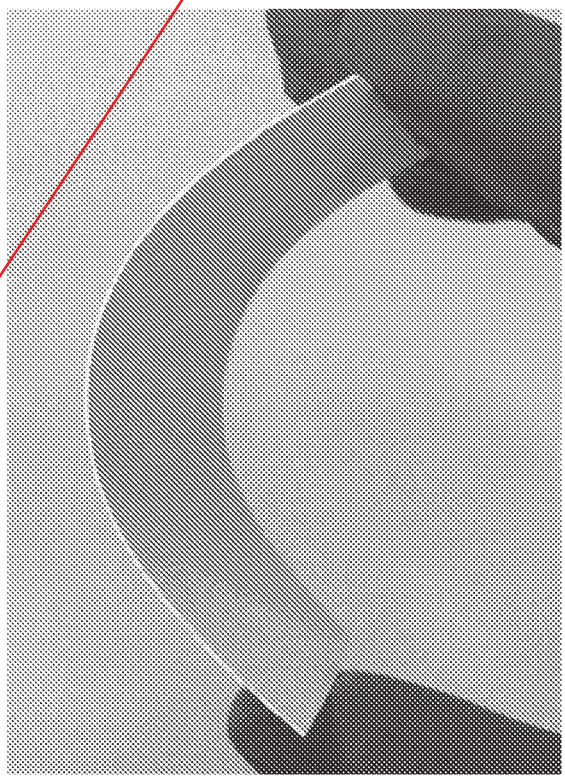

FIG. 13

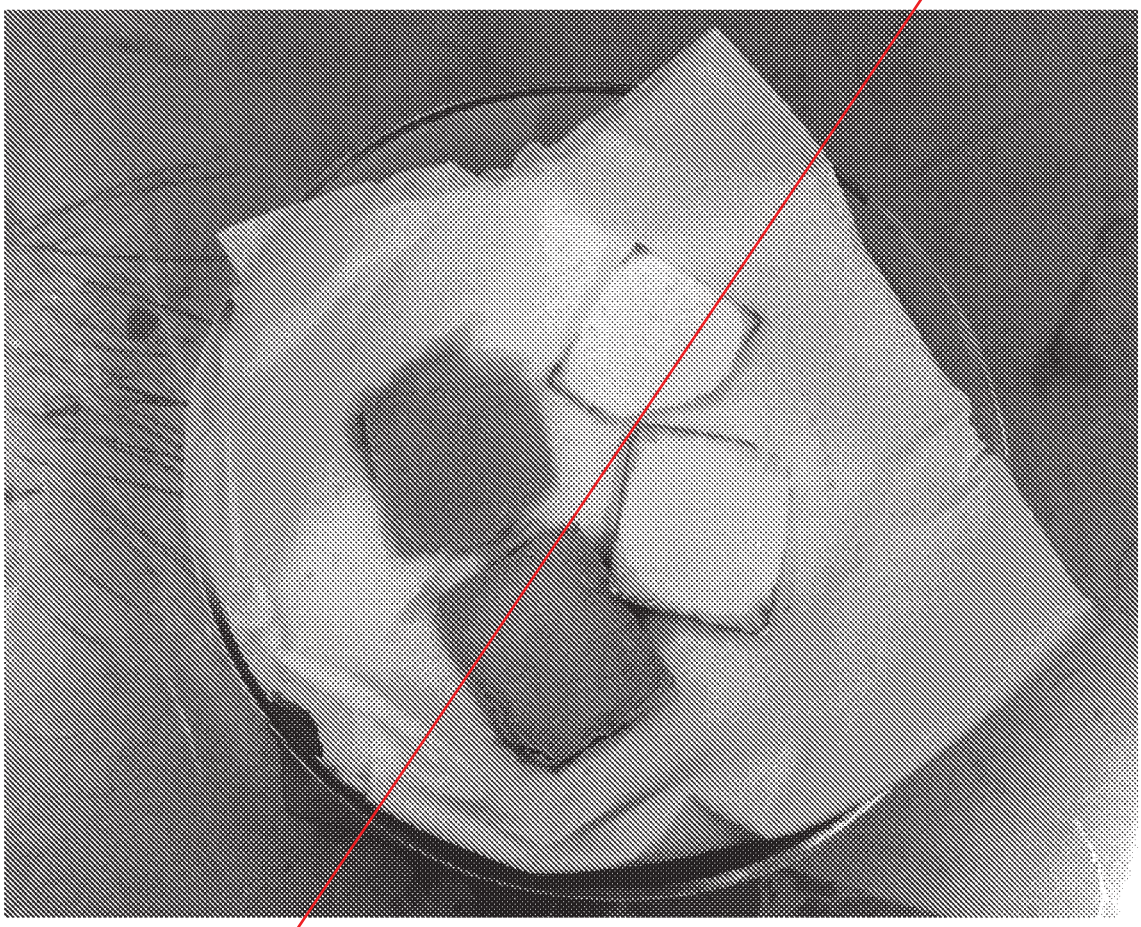

FIG. 17

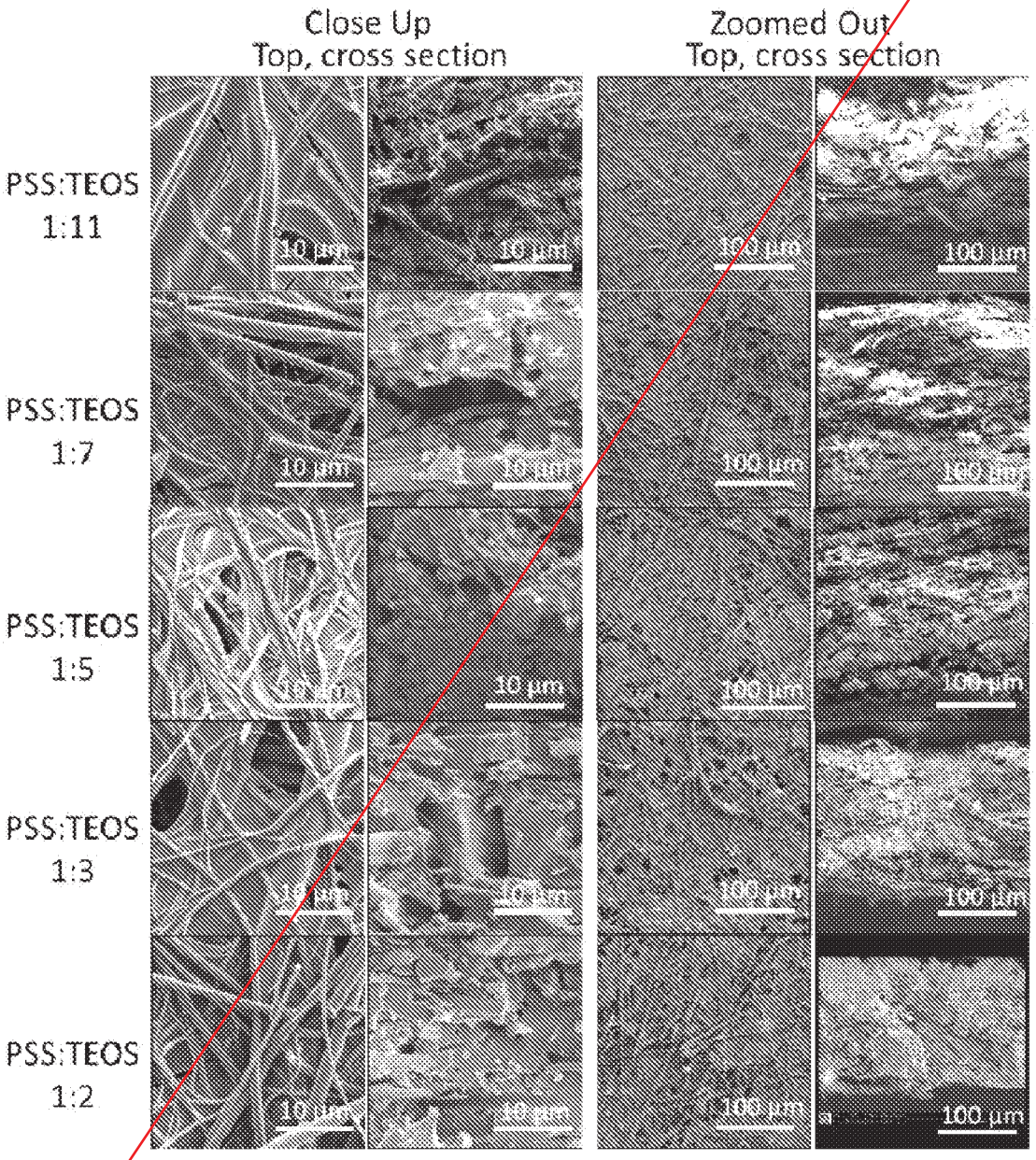
Close Up
Top, cross section
Zoomed Out
Top, cross section
PSS:TEOS
1:11
PSS:TEOS
1:7
PSS:TEOS
1:5
PSS:TEOS
1:3
PSS:TEOS
1:2
10 µm
100 µm

FIG. 18

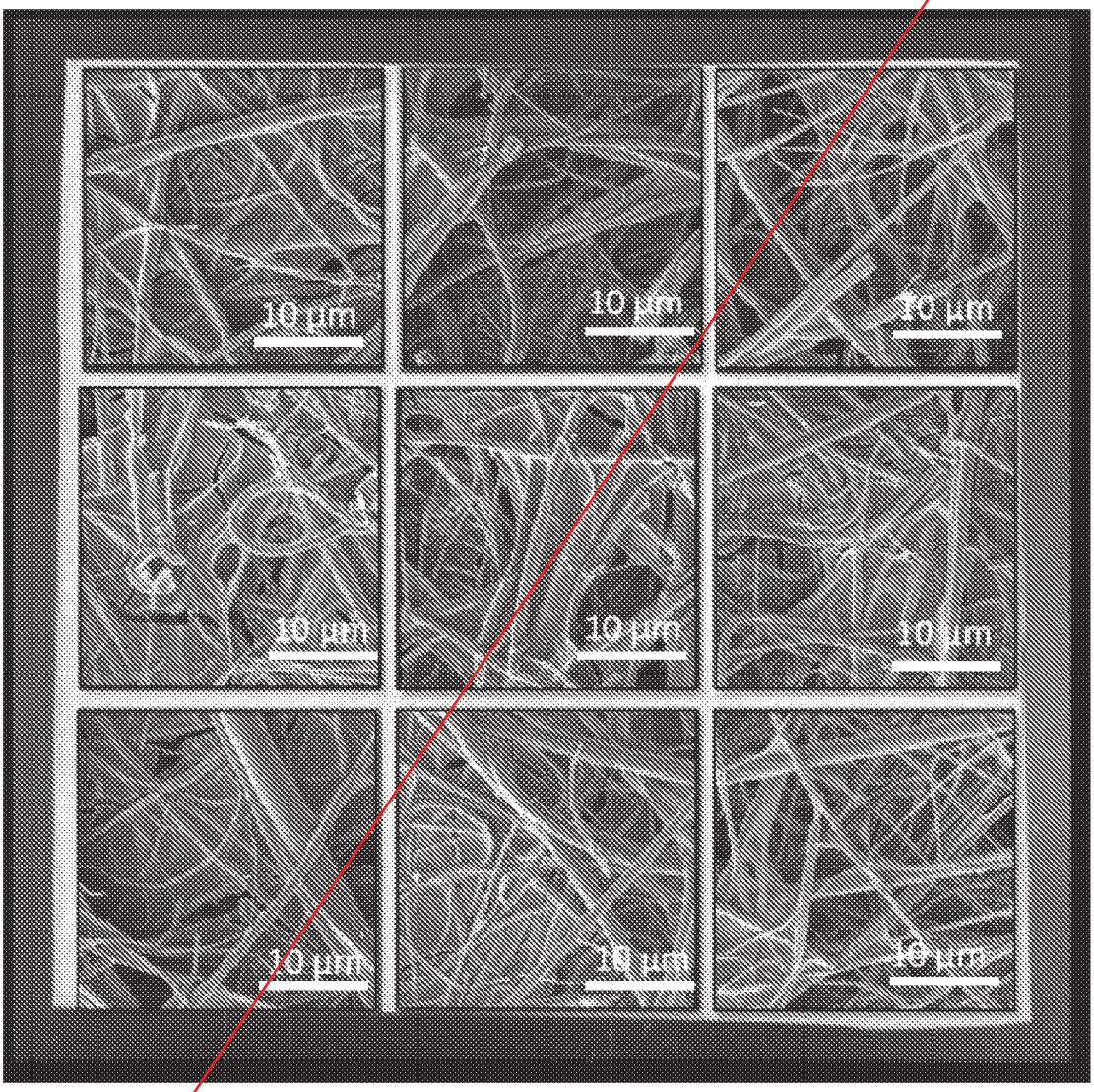

FIG. 19A

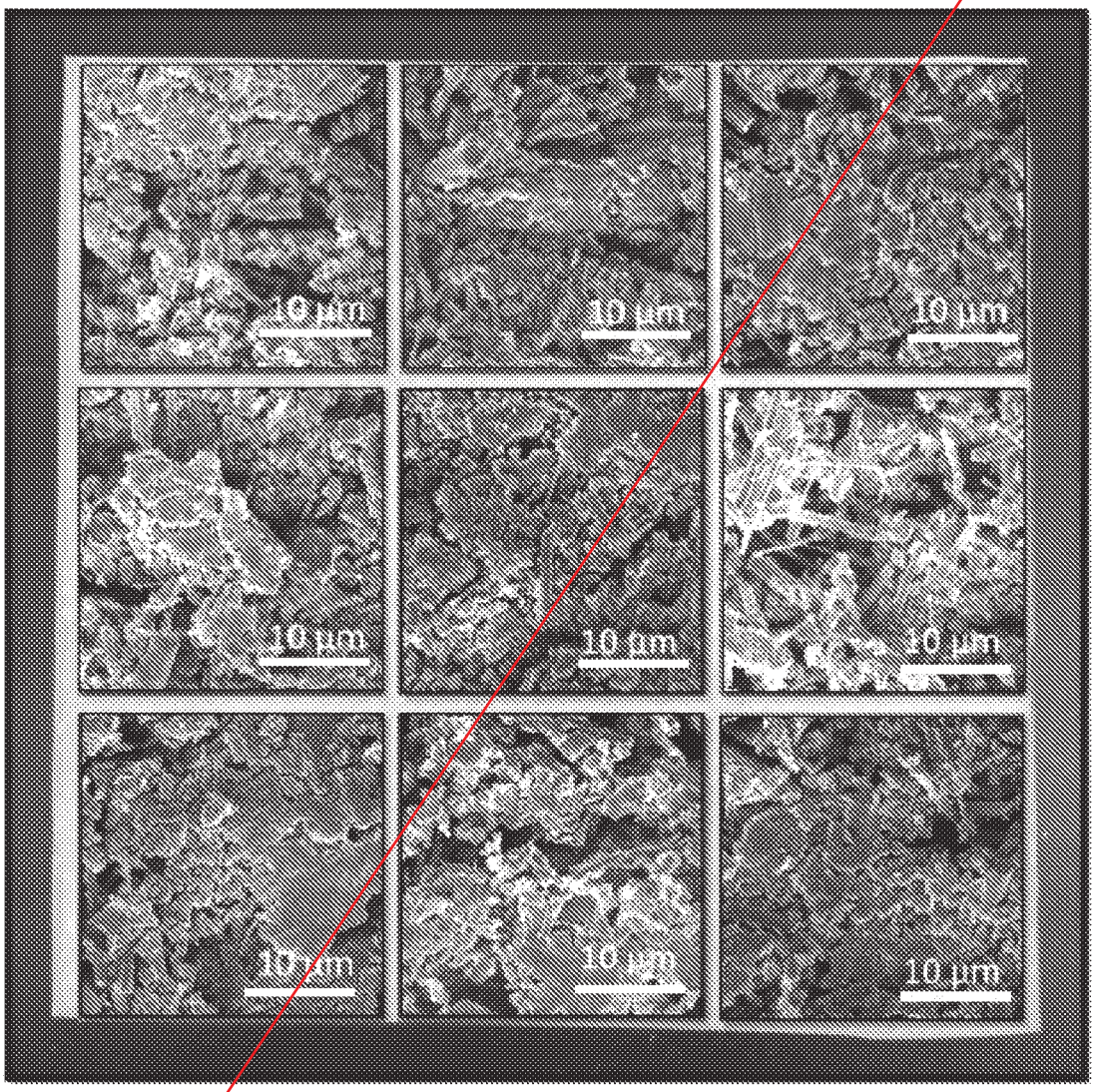

FIG. 19B

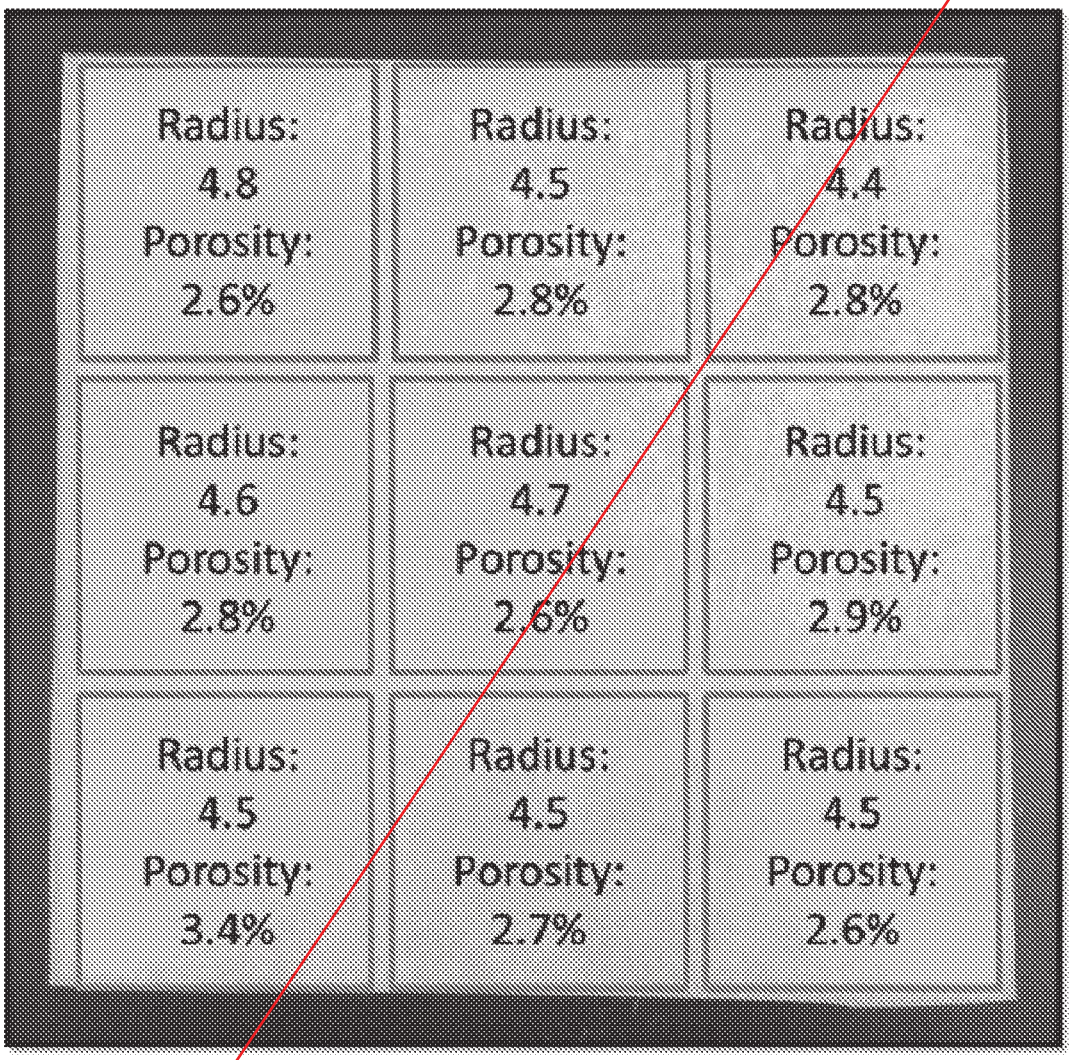
Radius: 4.8 Porosity: 2.6%
Radius: 4.5 Porosity: 2.8%
Radius: 4.4 Porosity: 2.8%
Radius: 4.6 Porosity: 2.8%
Radius: 4.7 Porosity: 2.6%
Radius: 4.5 Porosity: 2.9%
Radius: 4.5 Porosity: 3.4%
Radius: 4.5 Porosity: 2.7%
Radius: 4.5 Porosity: 2.6%

FIG. 19C

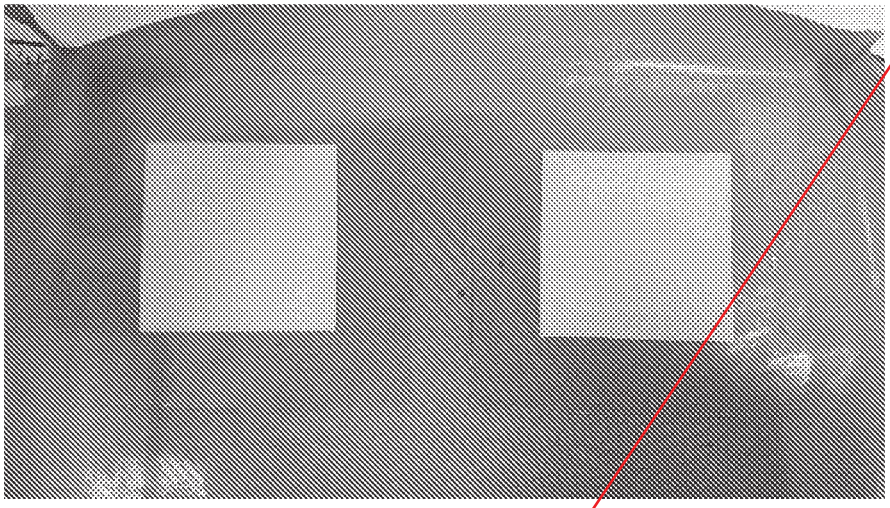

FIG. 28

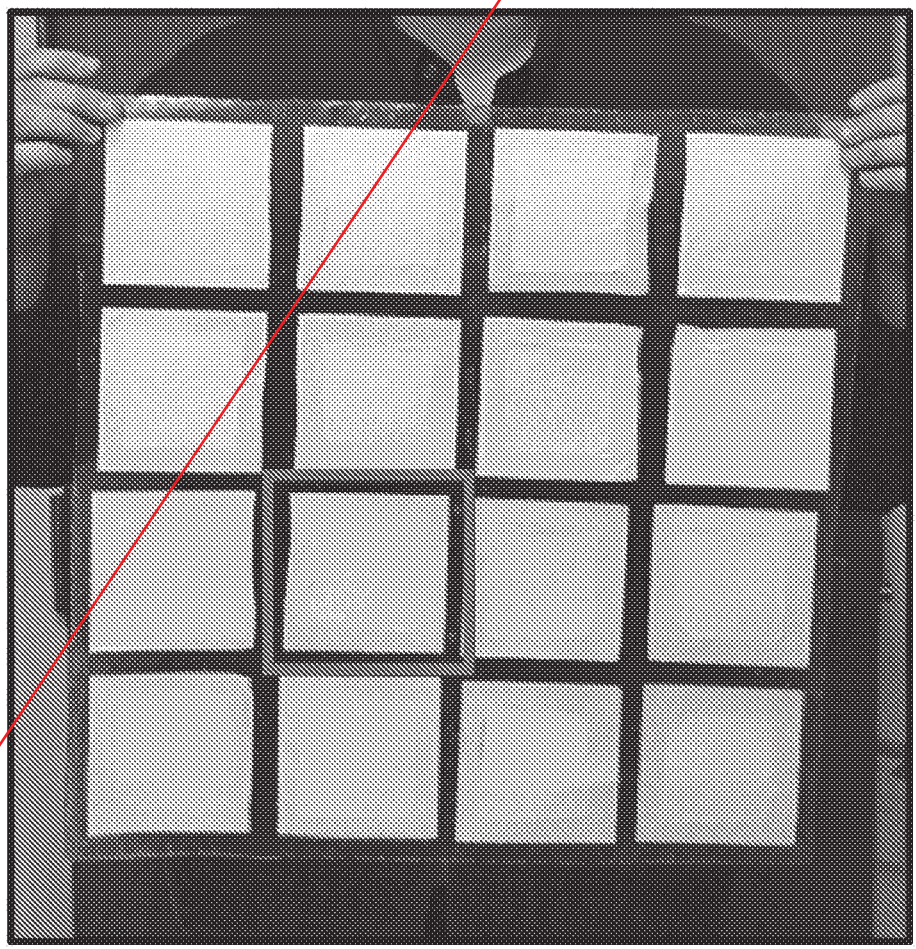

FIG. 29

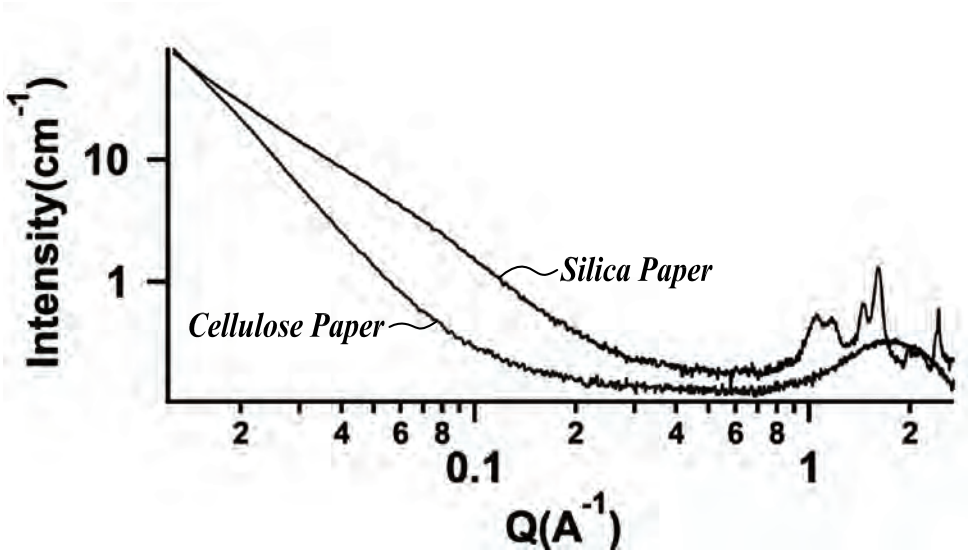
Intensity(cm-1)
10
1
Silica Paper
Cellulose Paper
2
4
6
8
0.1
2
4
6
8
1
2
Q(A-1)

FIG. 12

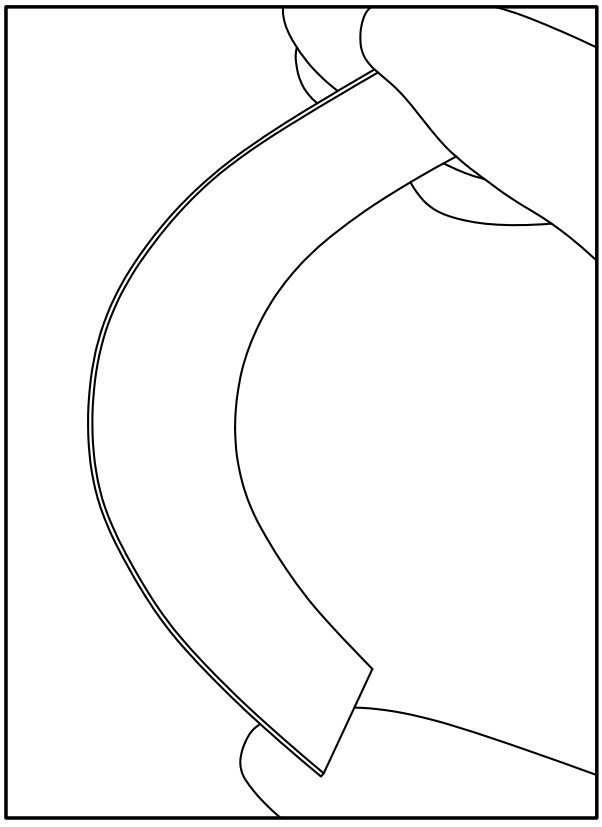

FIG. 13

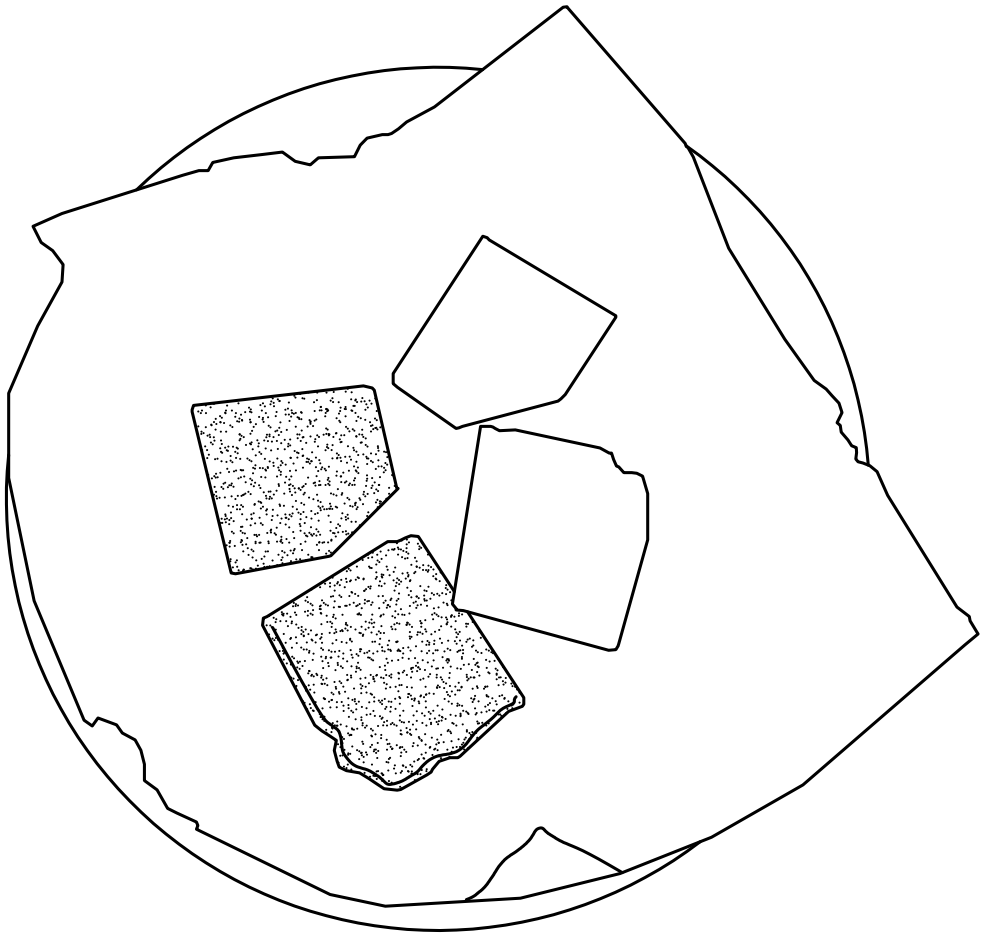

FIG. 17

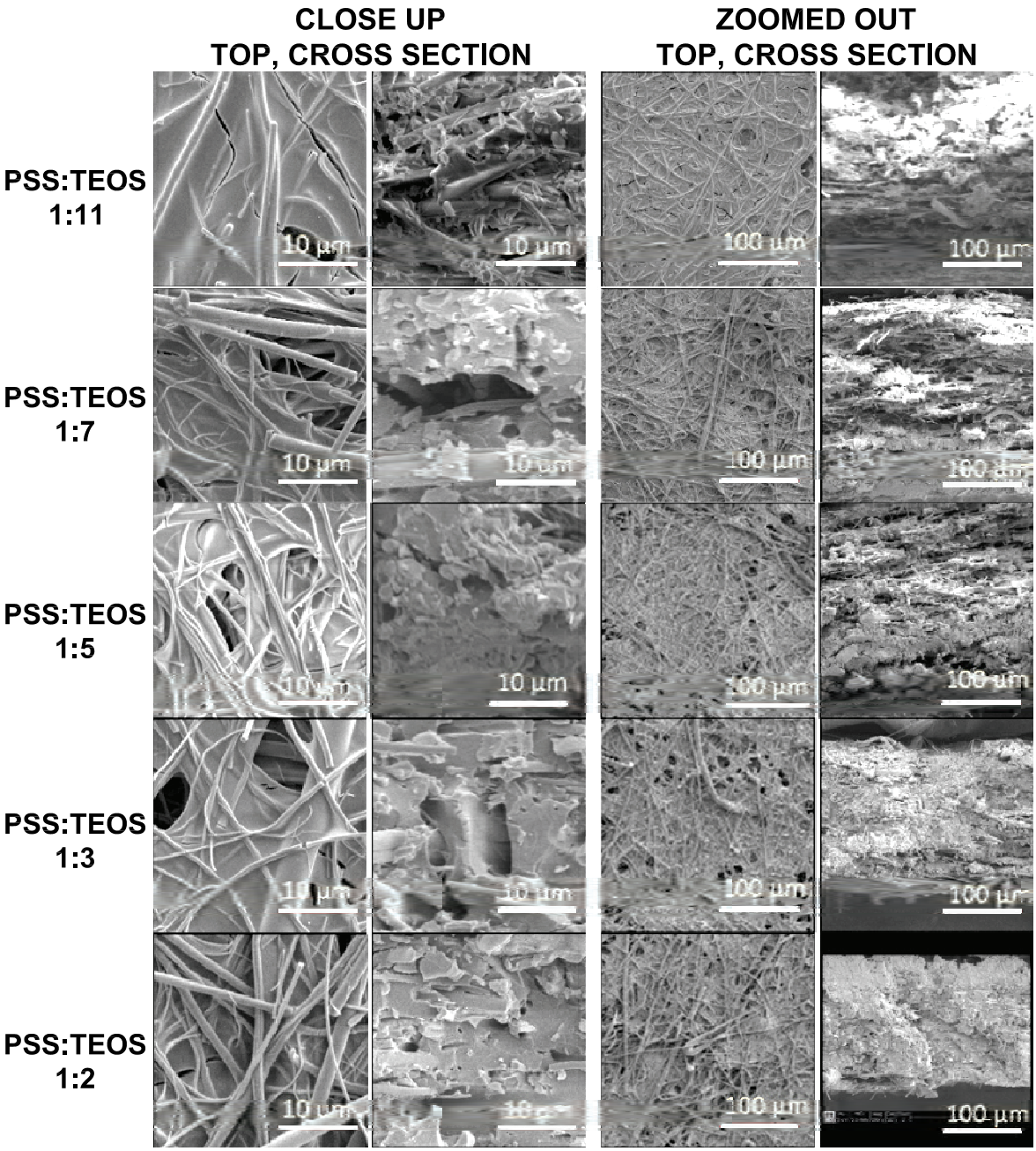
CLOSE UP
TOP, CROSS SECTION
ZOOMED OUT
TOP, CROSS SECTION
PSS:TEOS
1:11
PSS:TEOS
1:7
PSS:TEOS
1:5
PSS:TEOS
1:3
PSS:TEOS
1:2
10 µm
100 µm

FIG. 18

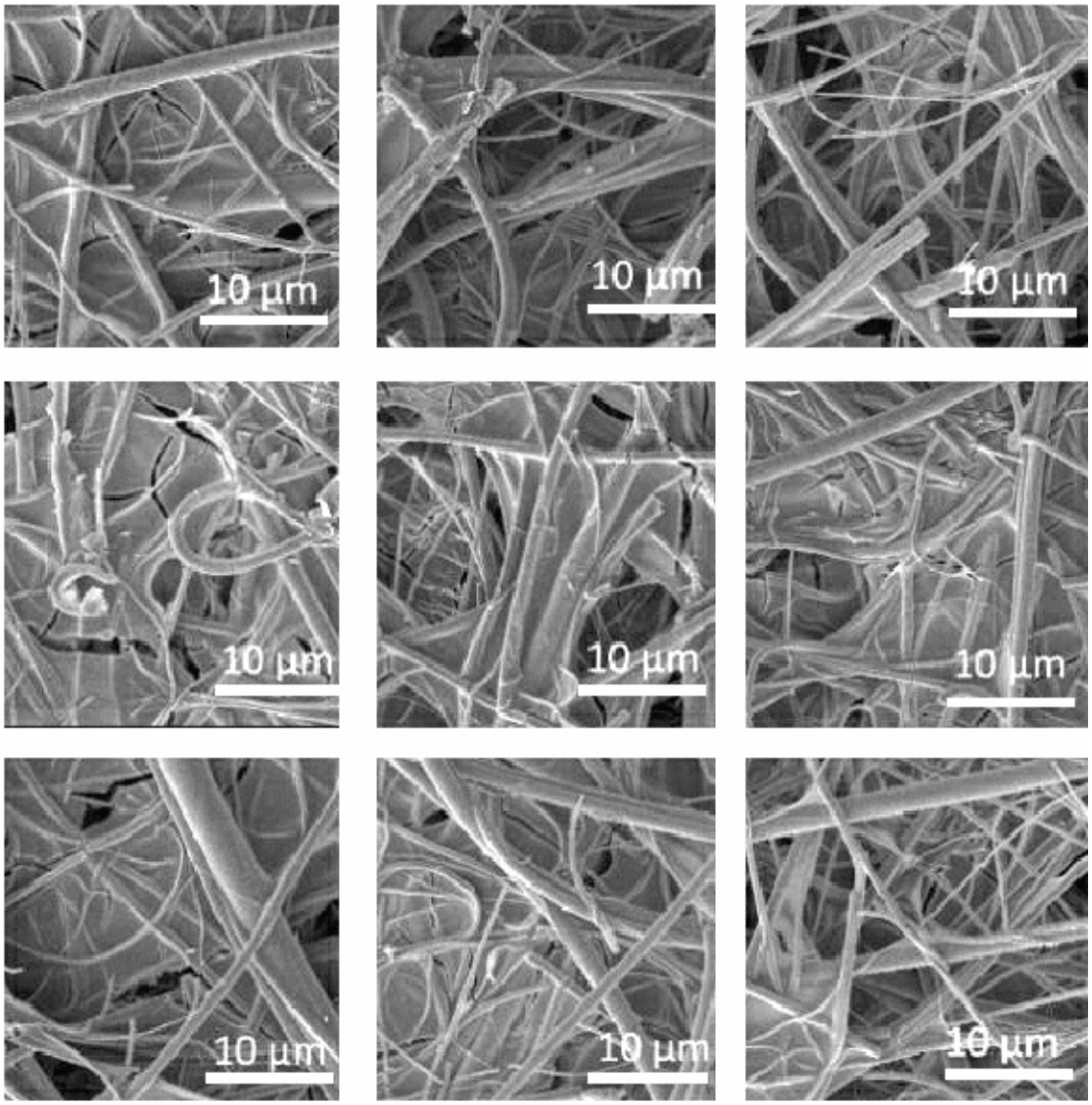

FIG. 19A

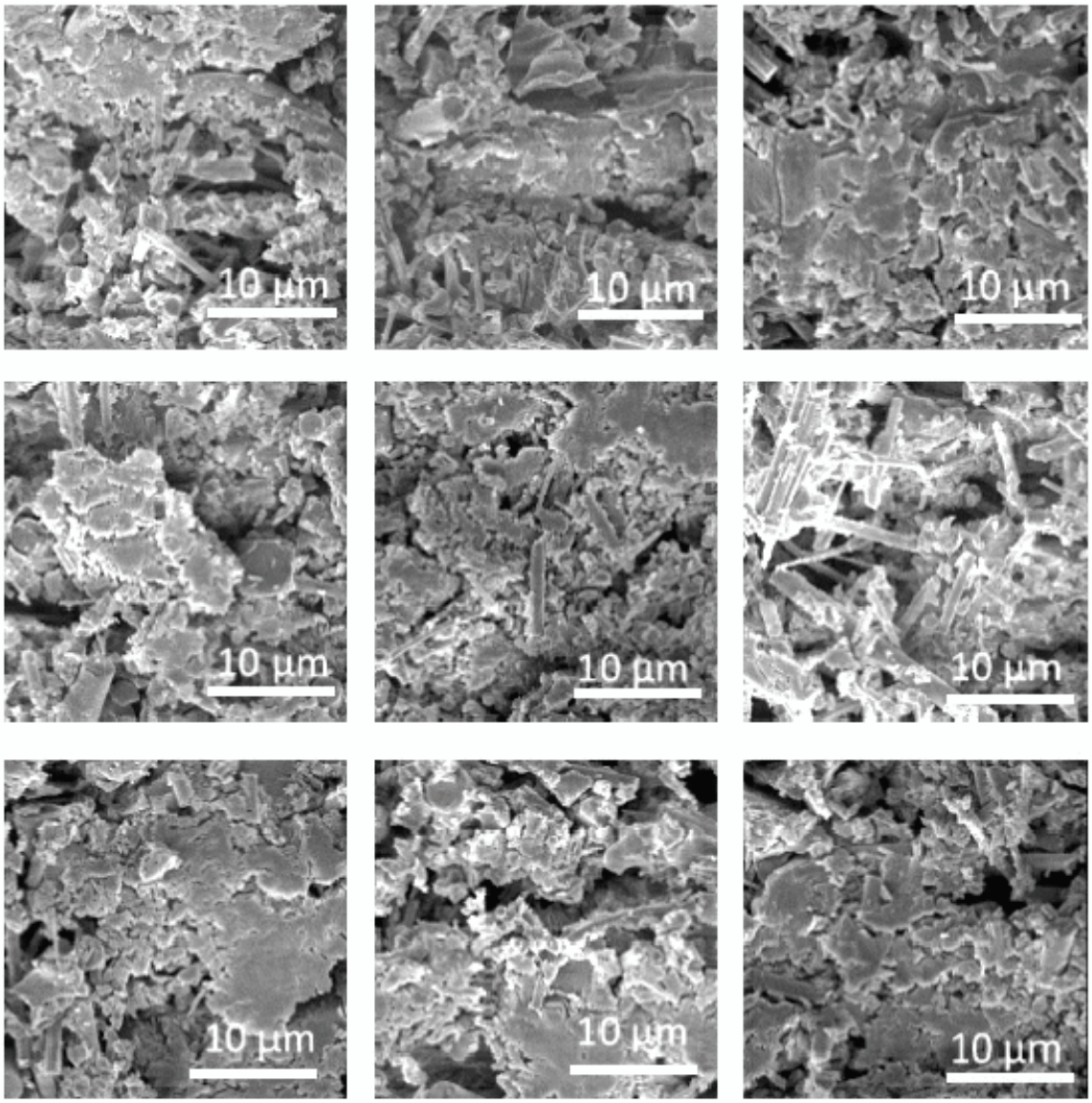

FIG. 19B

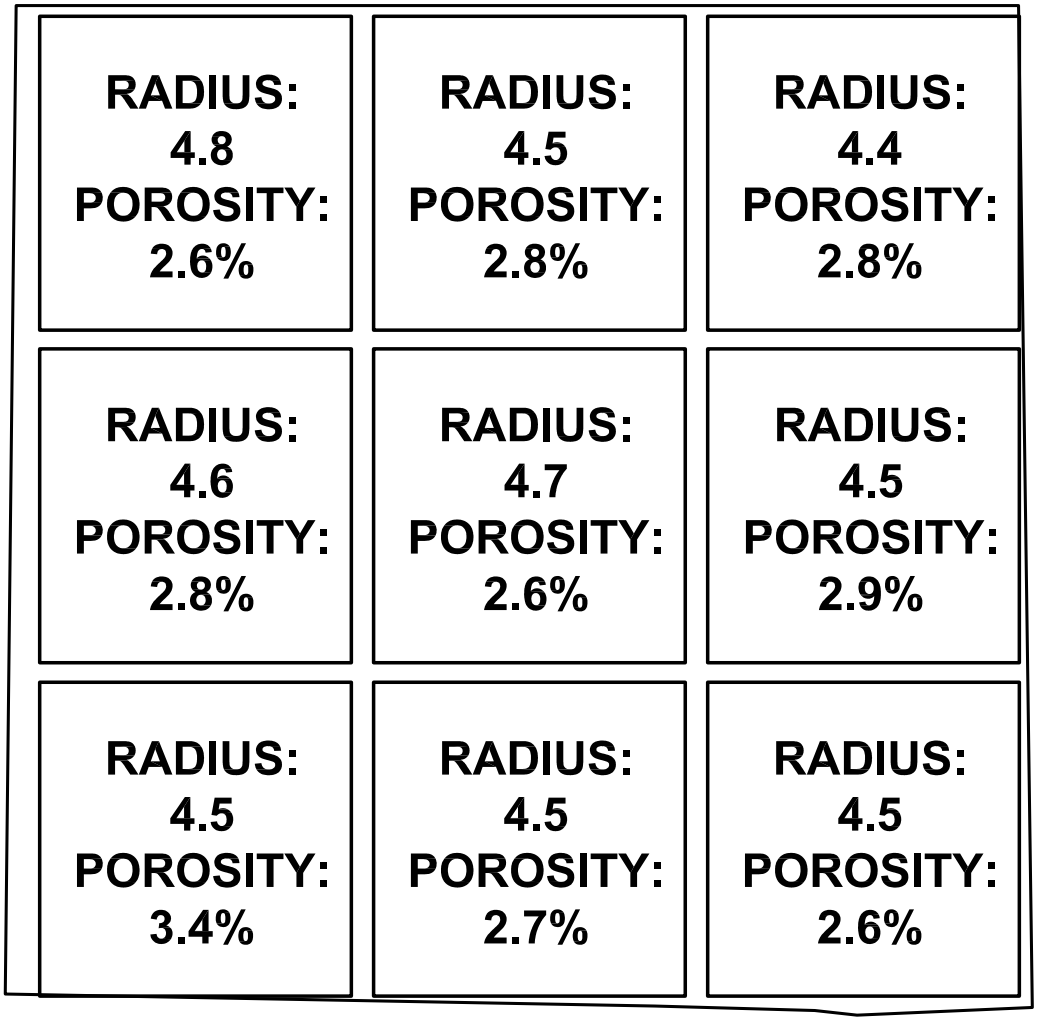
RADIUS: 4.8 POROSITY: 2.6%
RADIUS: 4.5 POROSITY: 2.8%
RADIUS: 4.4 POROSITY: 2.8%
RADIUS: 4.6 POROSITY: 2.8%
RADIUS: 4.7 POROSITY: 2.6%
RADIUS: 4.5 POROSITY: 2.9%
RADIUS: 4.5 POROSITY: 3.4%
RADIUS: 4.5 POROSITY: 2.7%
RADIUS: 4.5 POROSITY: 2.6%

FIG. 19C

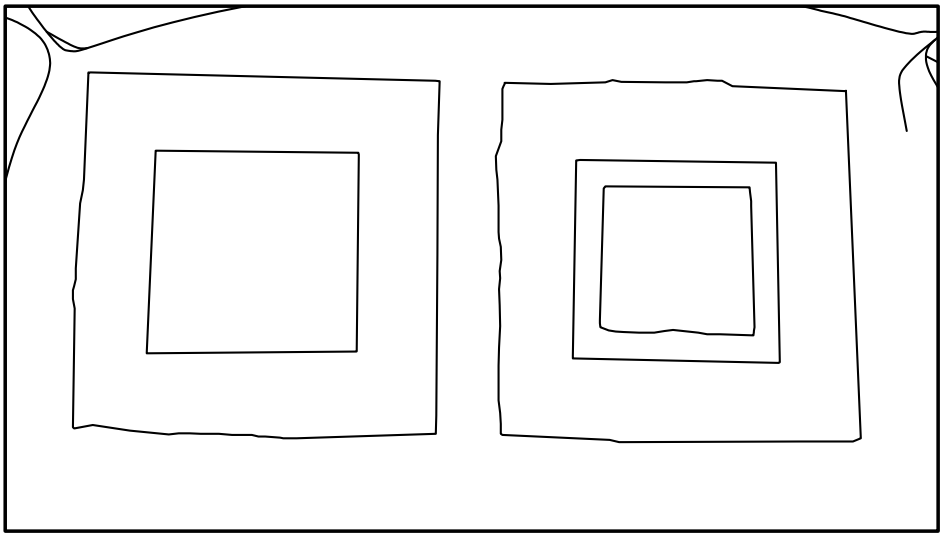

FIG. 28

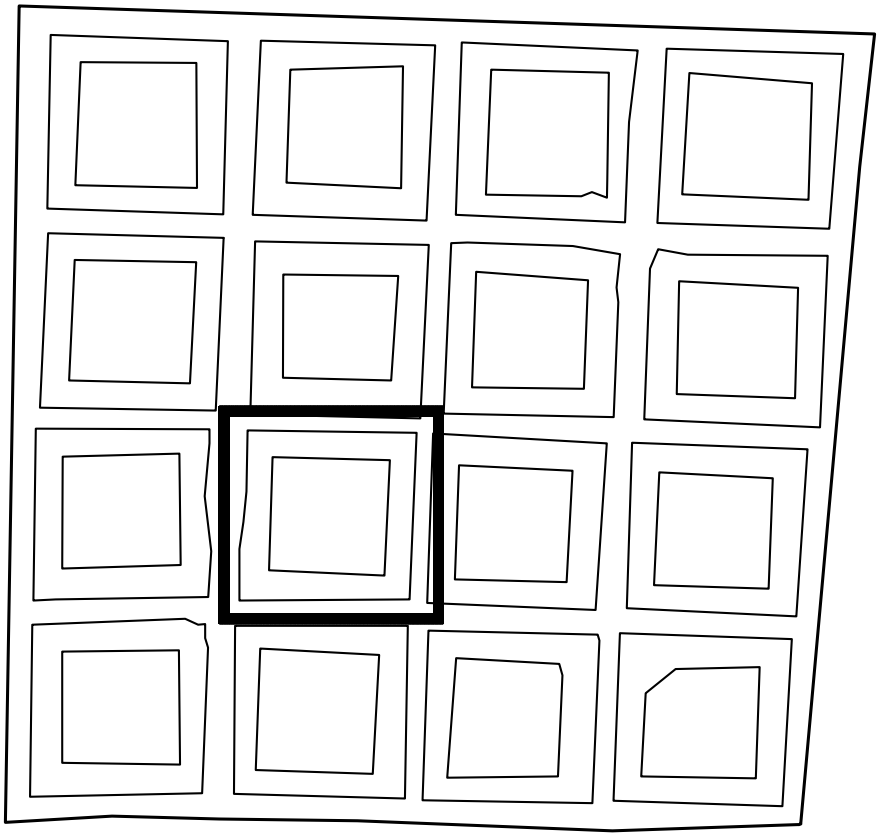

FIG. 29