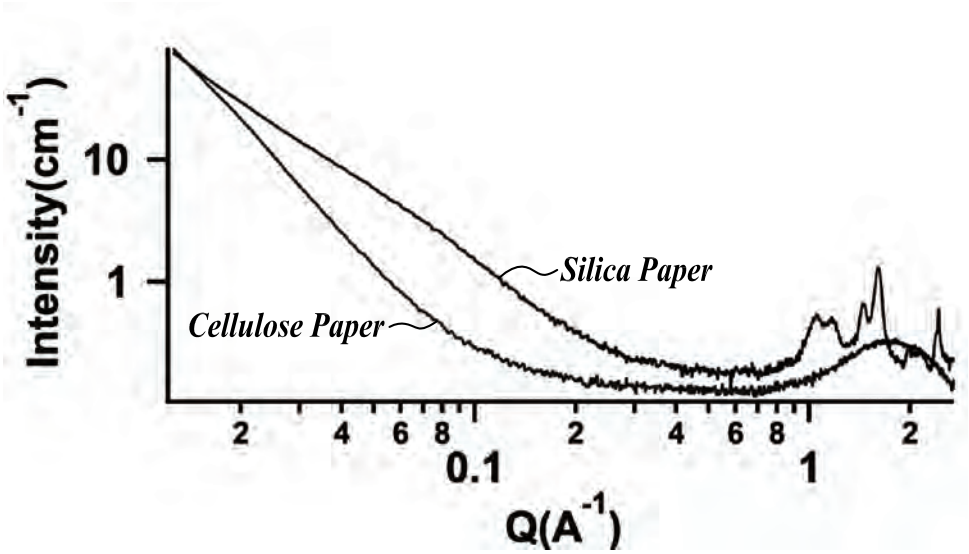

Intensity(cm-1)
10
1
Silica Paper
Cellulose Paper
2
4
6
8
0.1
2
4
6
8
1
2
Q(A-1)

FIG. 12

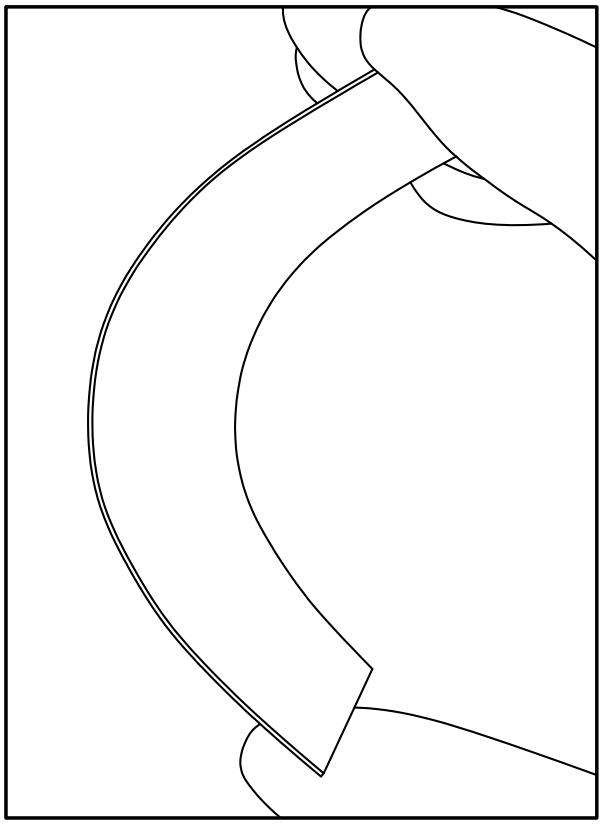


FIG. 13

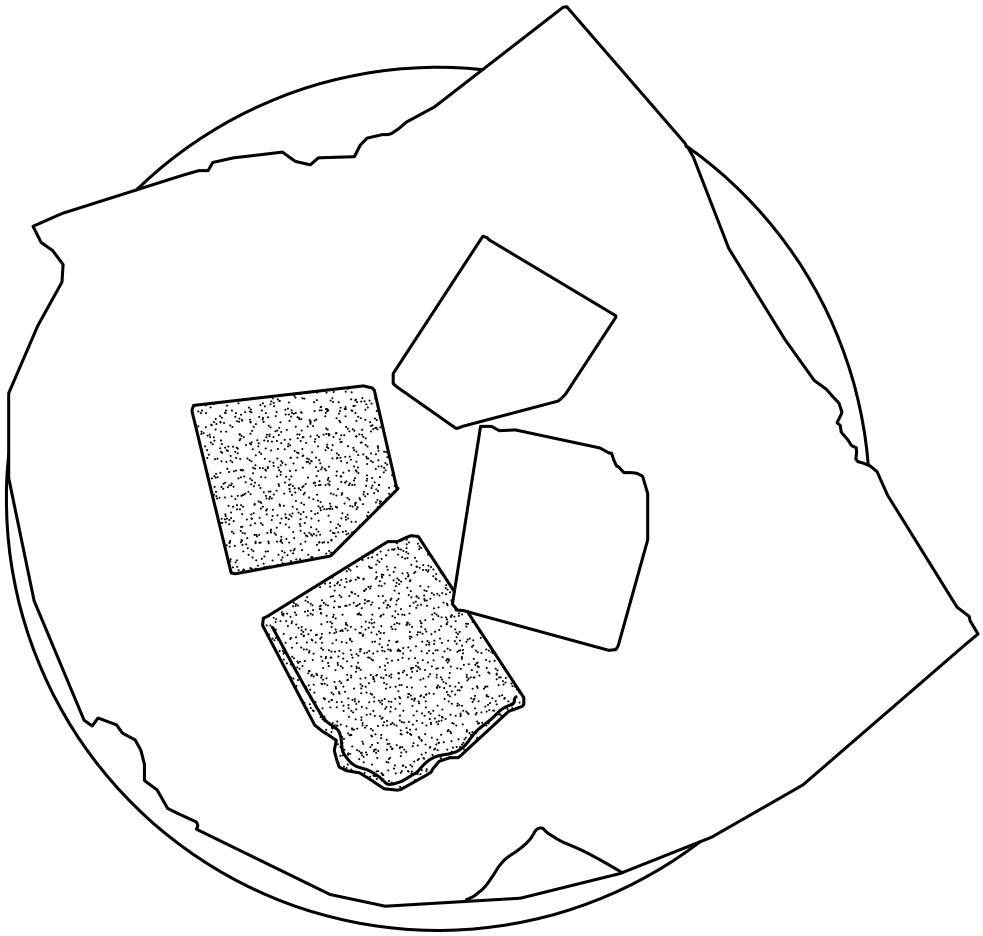


FIG. 17

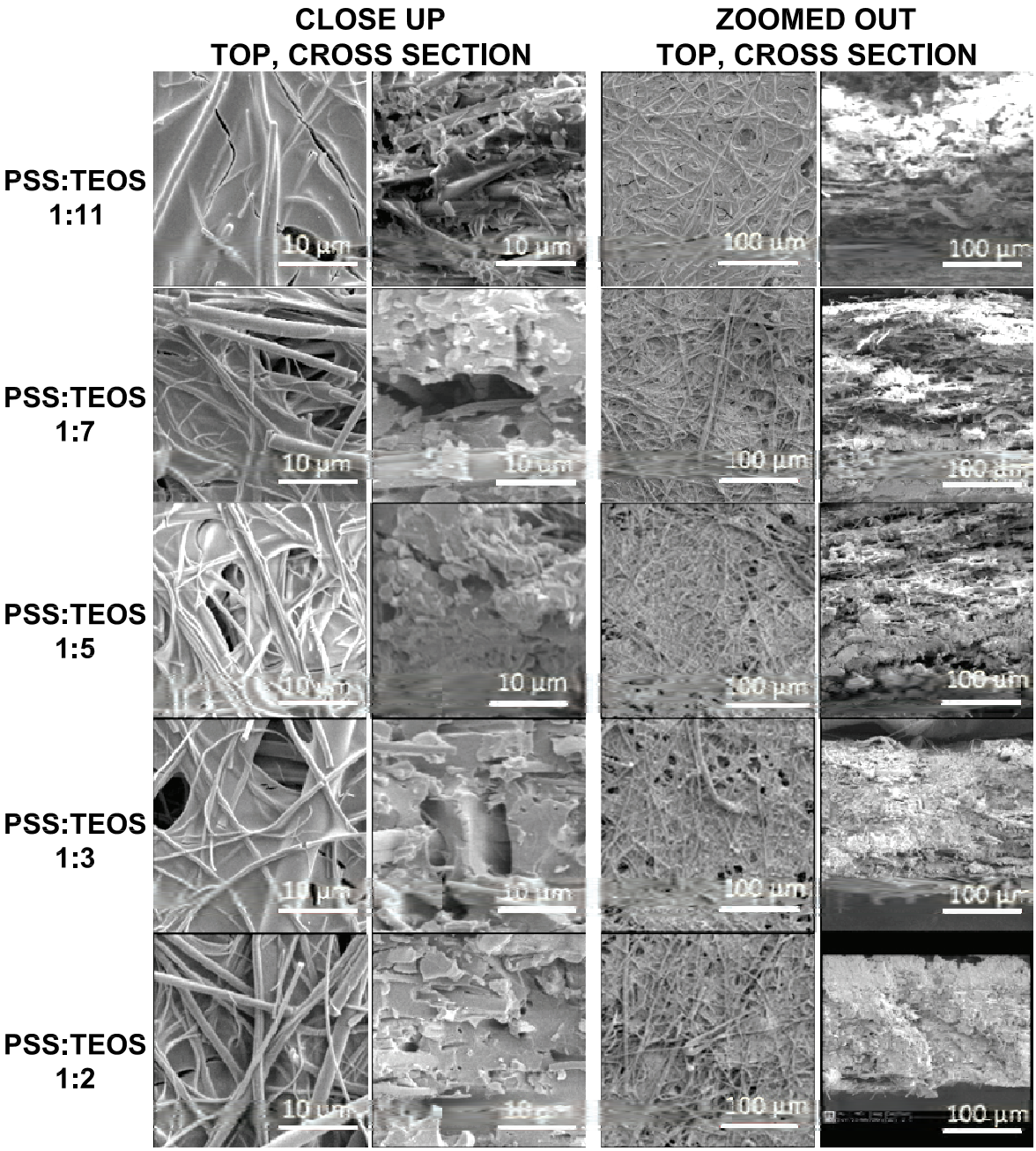

CLOSE UP
TOP, CROSS SECTION
ZOOMED OUT
TOP, CROSS SECTION
PSS:TEOS
1:11
PSS:TEOS
1:7
PSS:TEOS
1:5
PSS:TEOS
1:3
PSS:TEOS
1:2
10 µm
100 µm

FIG. 18

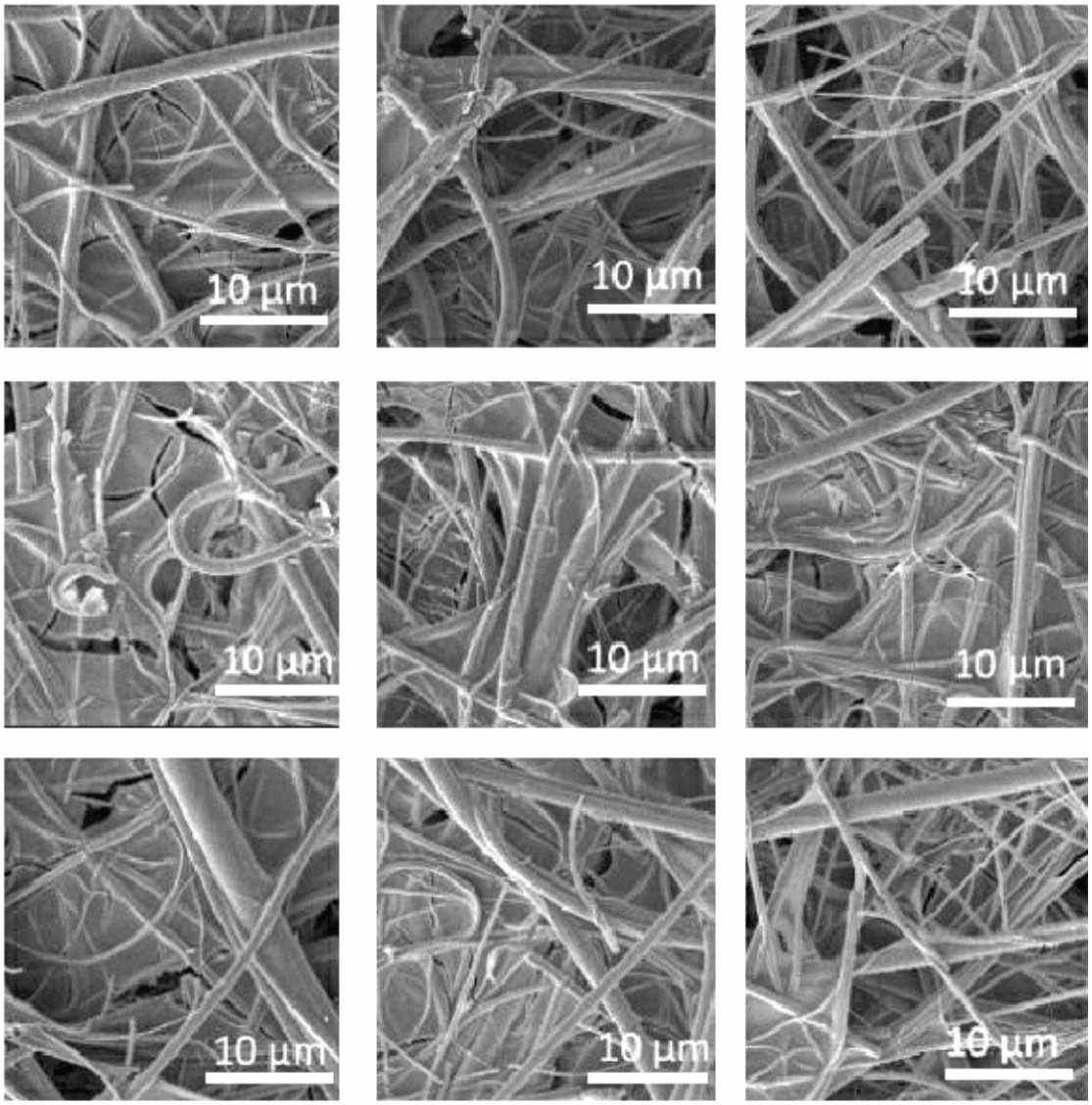


FIG. 19A

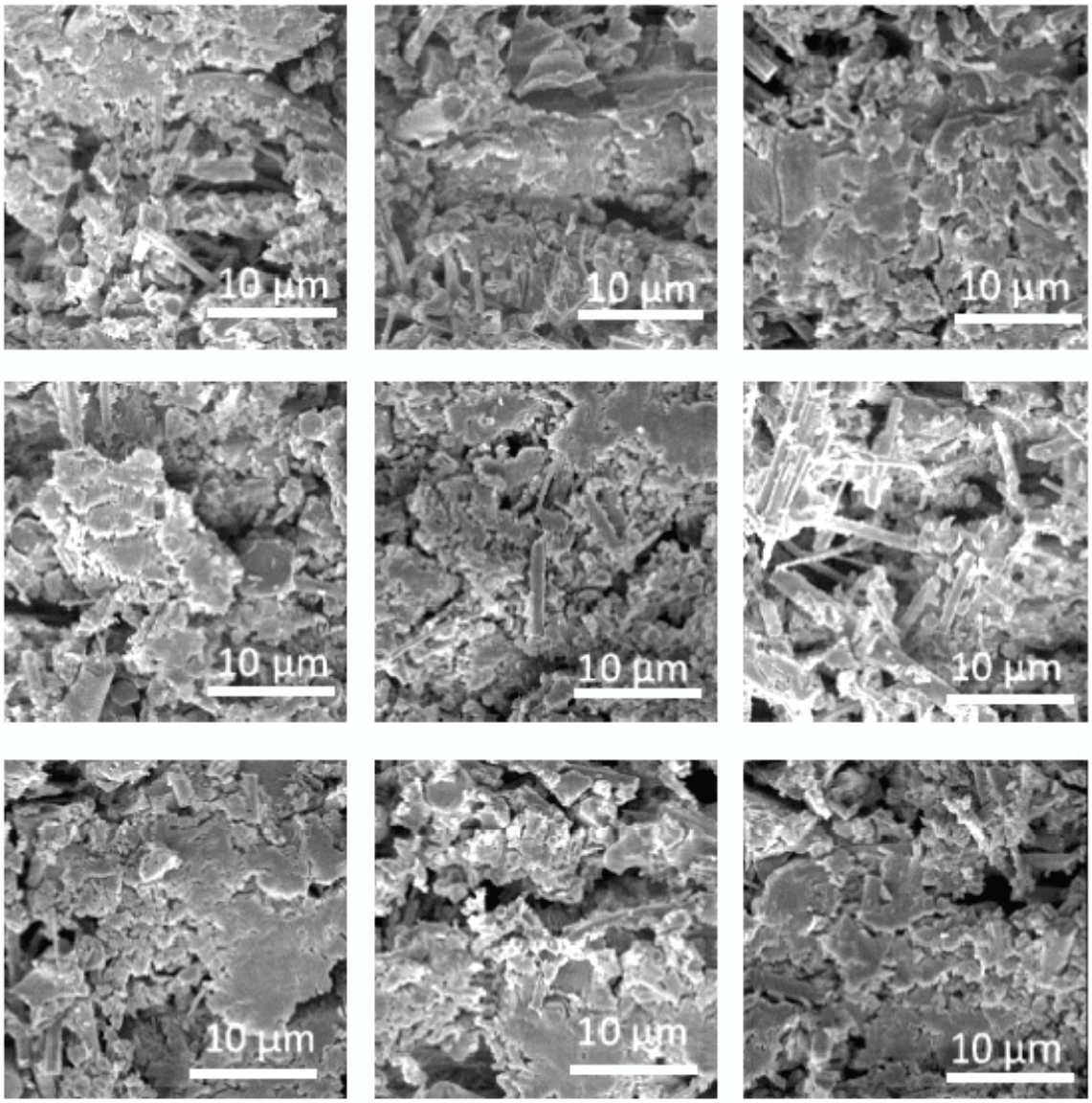


FIG. 19B

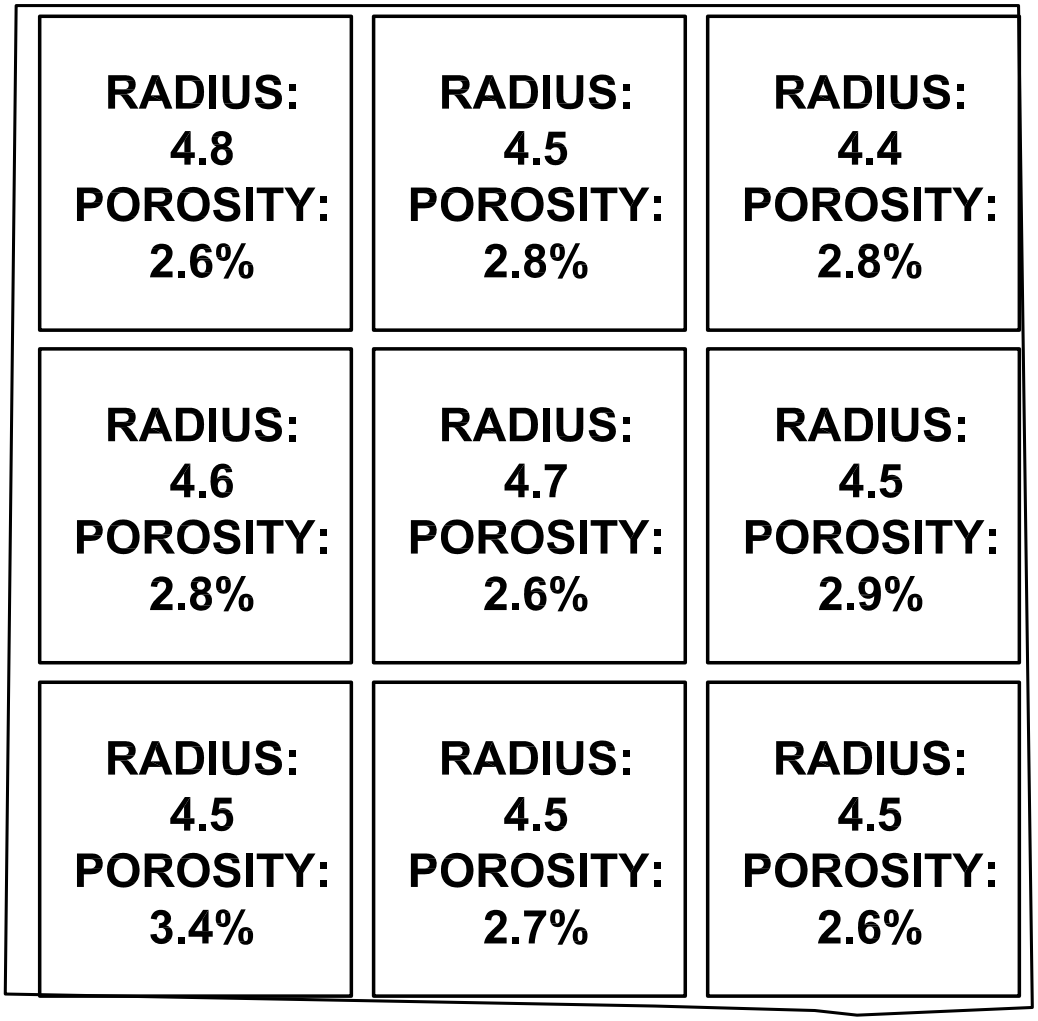

RADIUS: 4.8 POROSITY: 2.6%
RADIUS: 4.5 POROSITY: 2.8%
RADIUS: 4.4 POROSITY: 2.8%
RADIUS: 4.6 POROSITY: 2.8%
RADIUS: 4.7 POROSITY: 2.6%
RADIUS: 4.5 POROSITY: 2.9%
RADIUS: 4.5 POROSITY: 3.4%
RADIUS: 4.5 POROSITY: 2.7%
RADIUS: 4.5 POROSITY: 2.6%

FIG. 19C

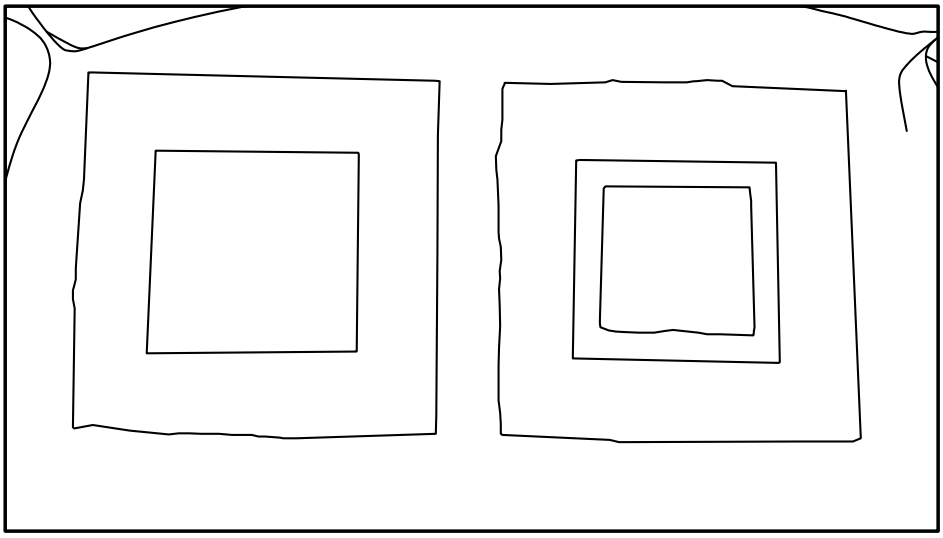


FIG. 28

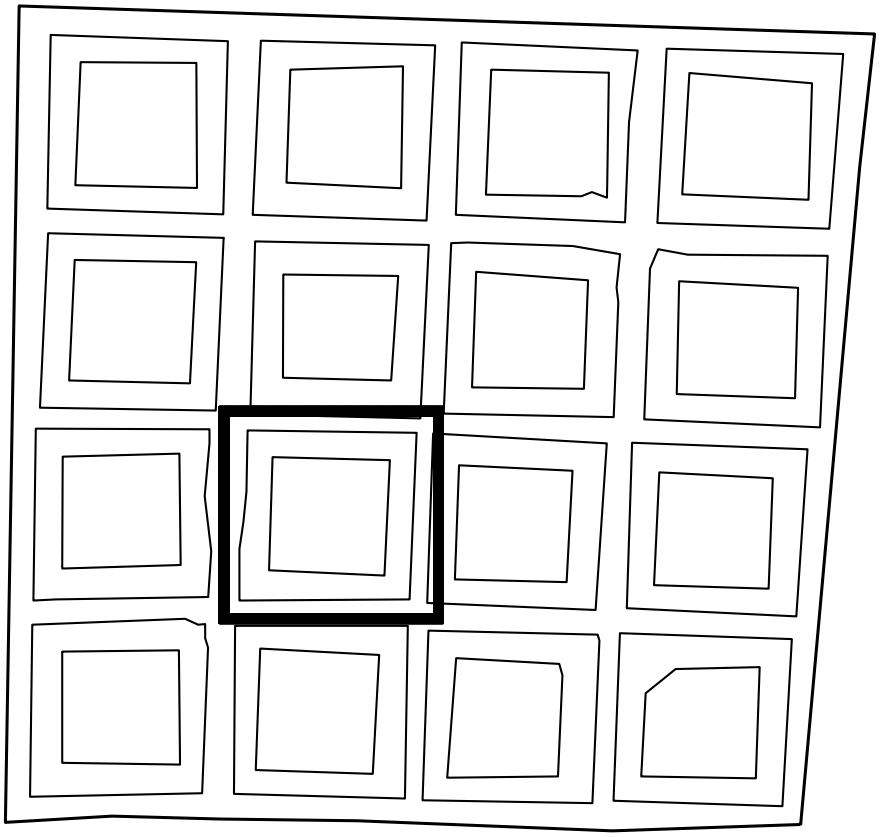


FIG. 29