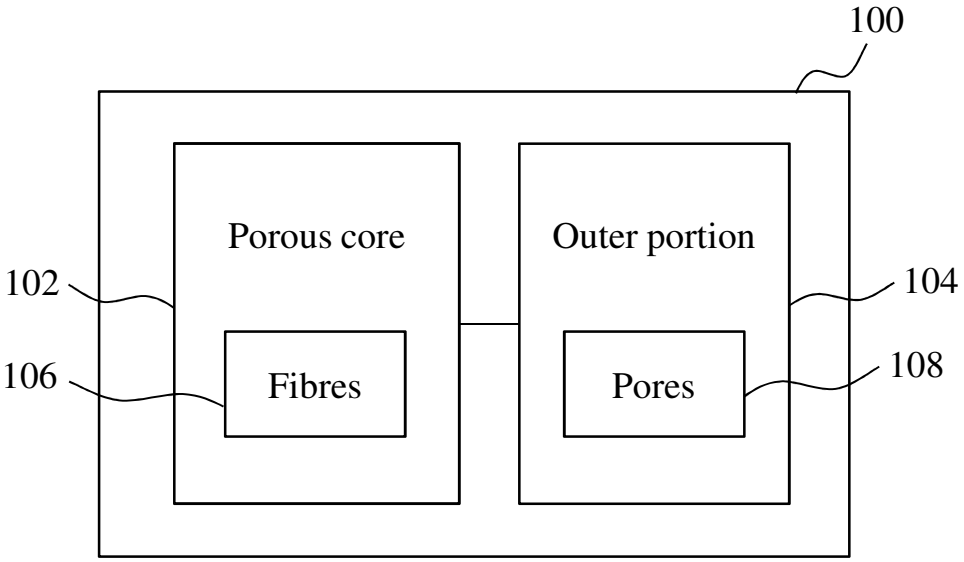

100
Porous core
Outer portion
102
104
106
Fibres
Pores
108

FIG. 1

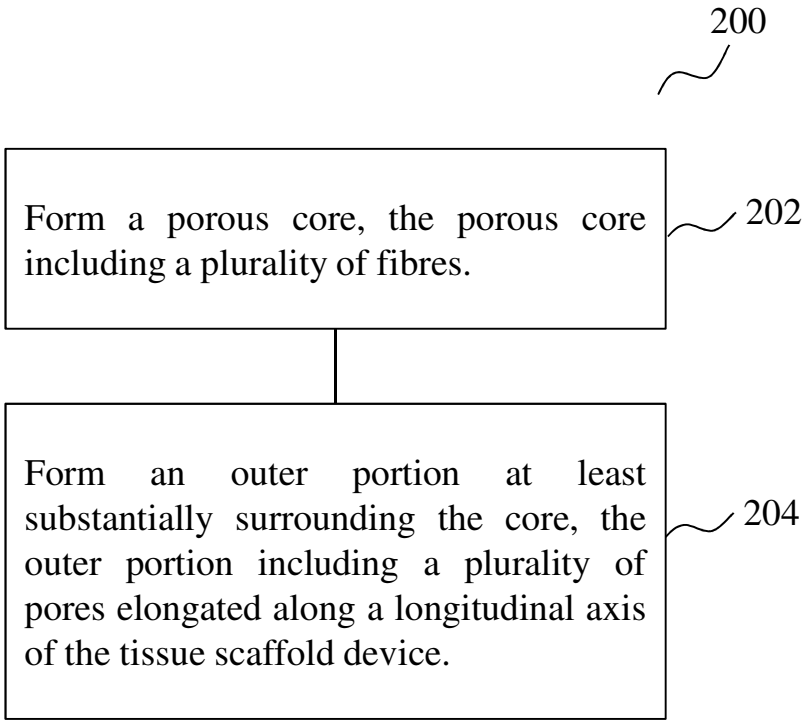

200
Form a porous core, the porous core including a plurality of fibres.
202
Form an outer portion at least substantially surrounding the core, the outer portion including a plurality of pores elongated along a longitudinal axis of the tissue scaffold device.
204

FIG. 2

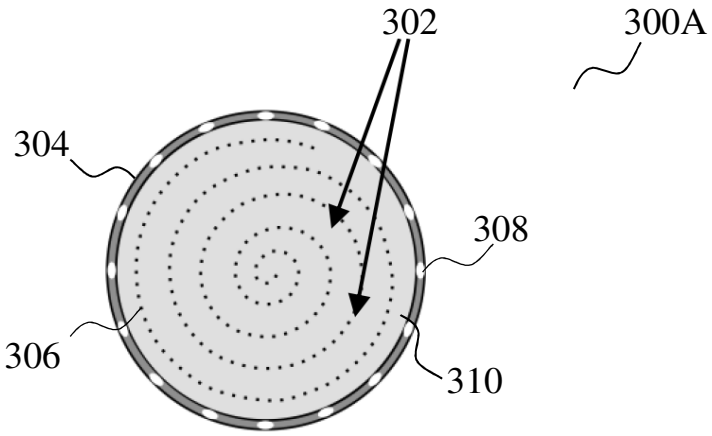


FIG. 3A

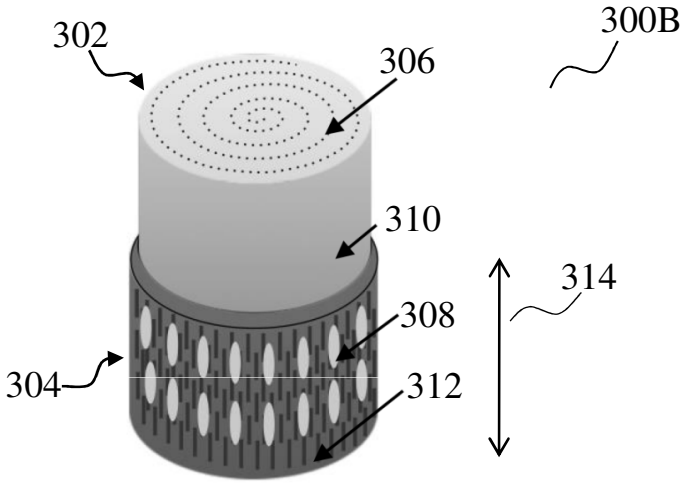


FIG. 3B

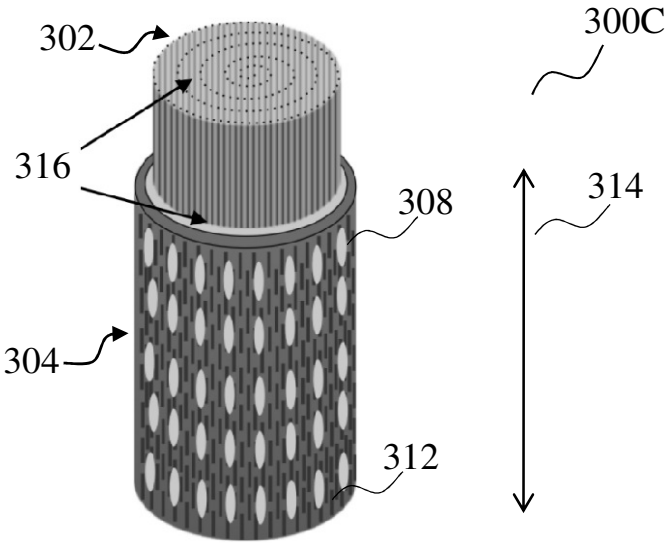


FIG. 3C

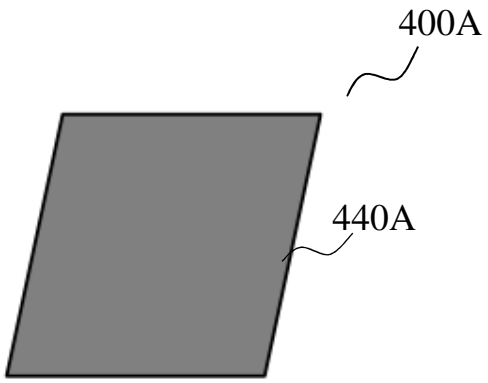


FIG. 4A

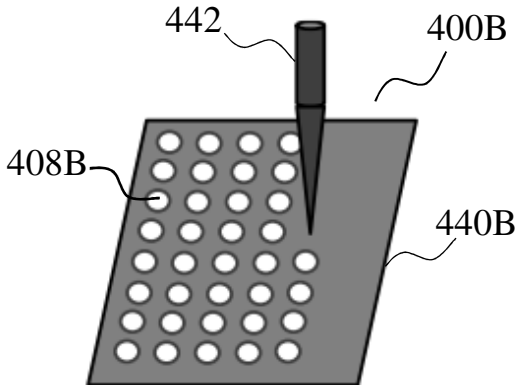


FIG. 4B

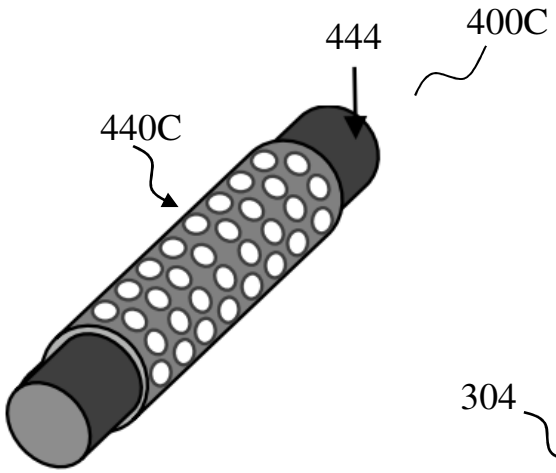


FIG. 4C

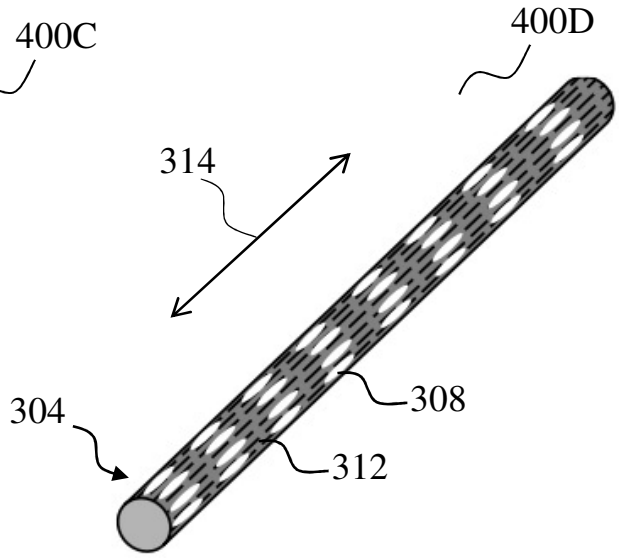


FIG. 4D



FIG. 5A

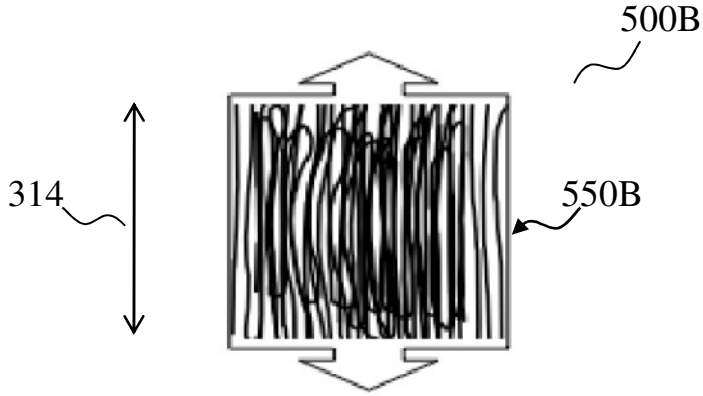


FIG. 5B

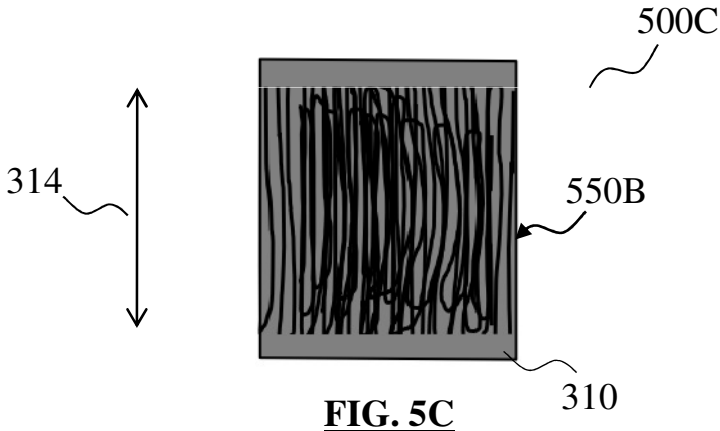


FIG. 5C

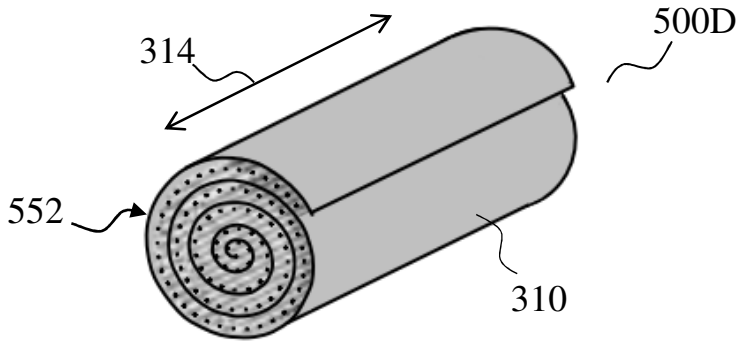


FIG. 5D

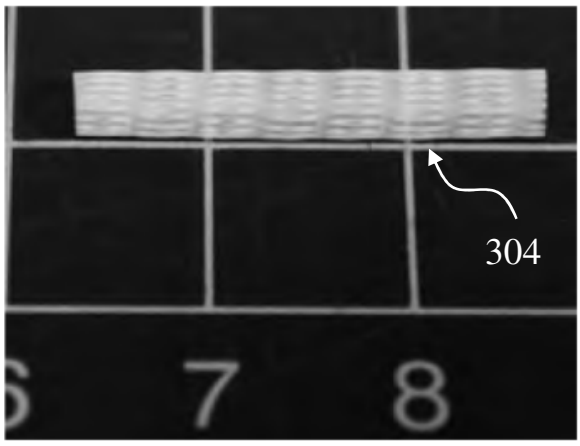


FIG. 6A

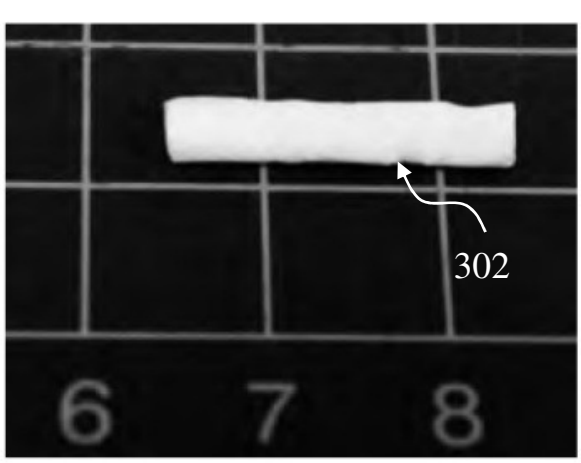


FIG. 6B

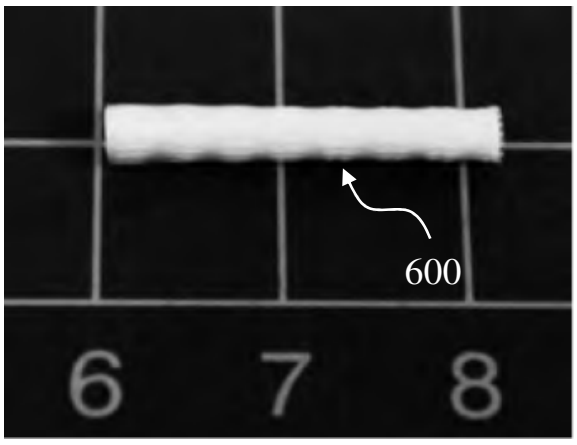


FIG. 6C

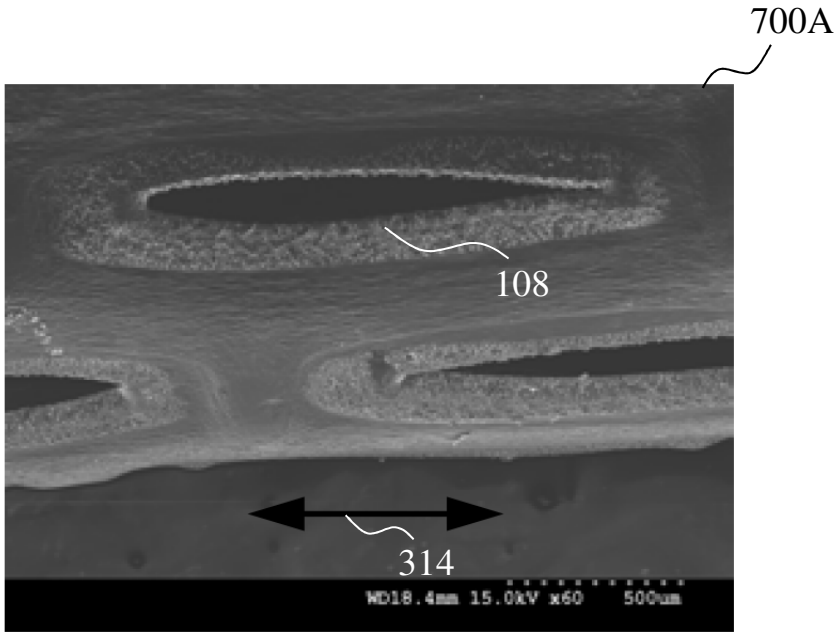

700A
108
314
WD18.4mm 15.0kV x60 500um

FIG. 7A

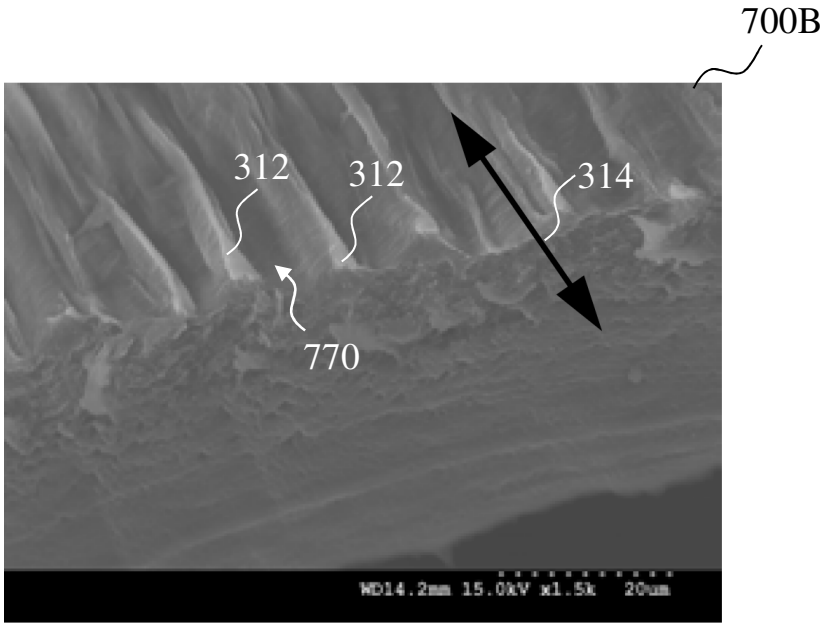

700B
312
312
314
770
WD14.2mm 15.0kV x1.5k 20um

FIG. 7B

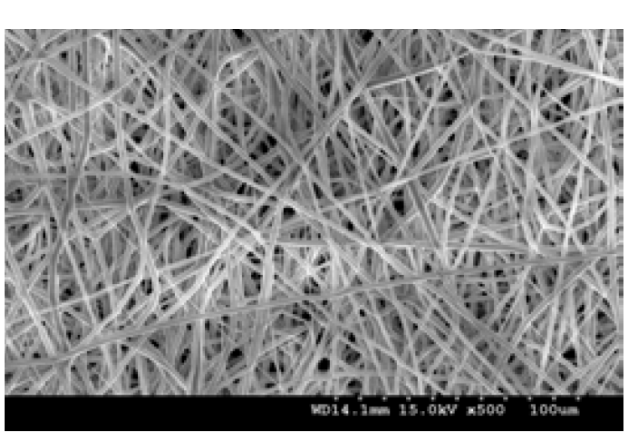


FIG. 8A

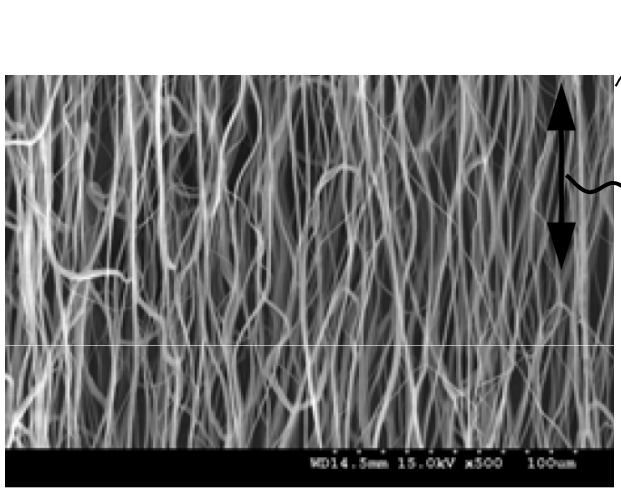


FIG. 8B

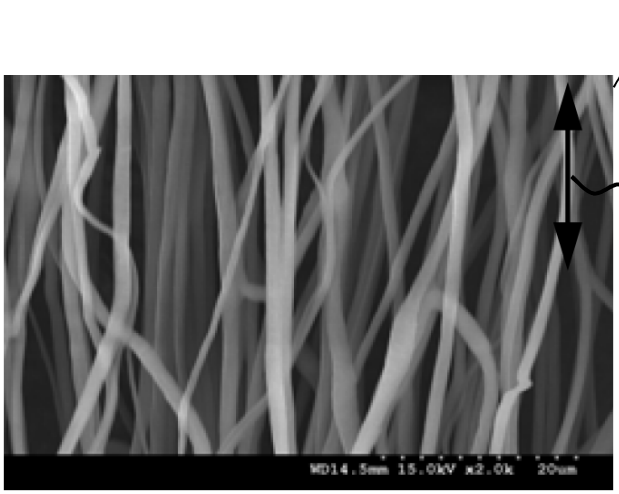


FIG. 8C

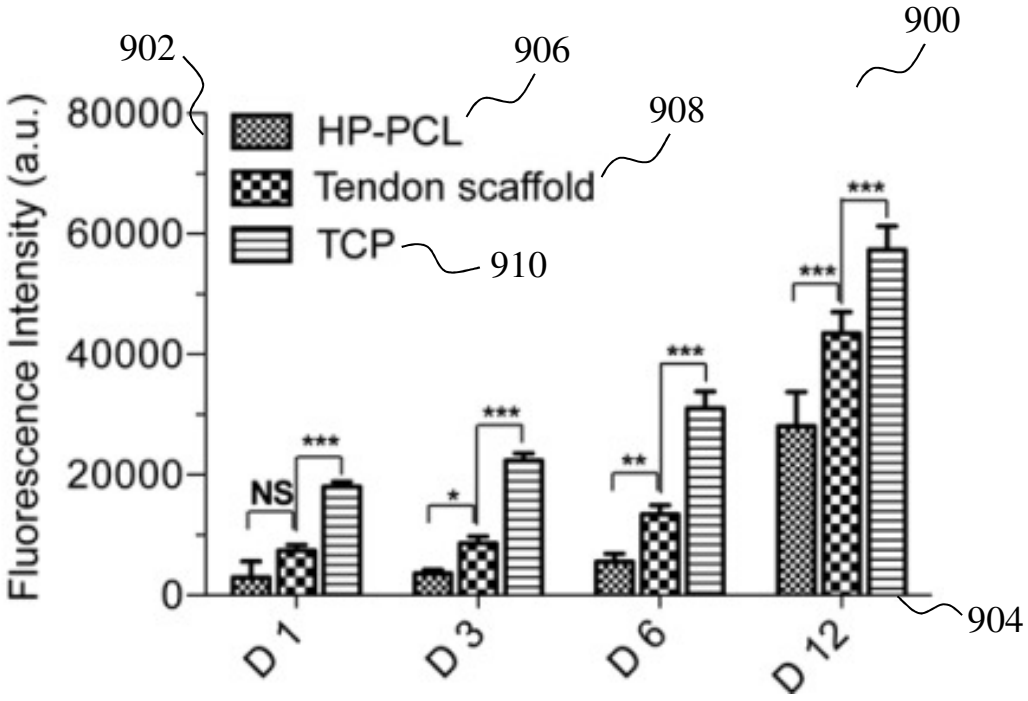

900
902
906
908
910
904
Fluorescence Intensity (a.u.)
80000
60000
40000
20000
0
HP-PCL
Tendon scaffold
TCP
NS
*
**
***
D 1
D 3
D 6
D 12

FIG. 9

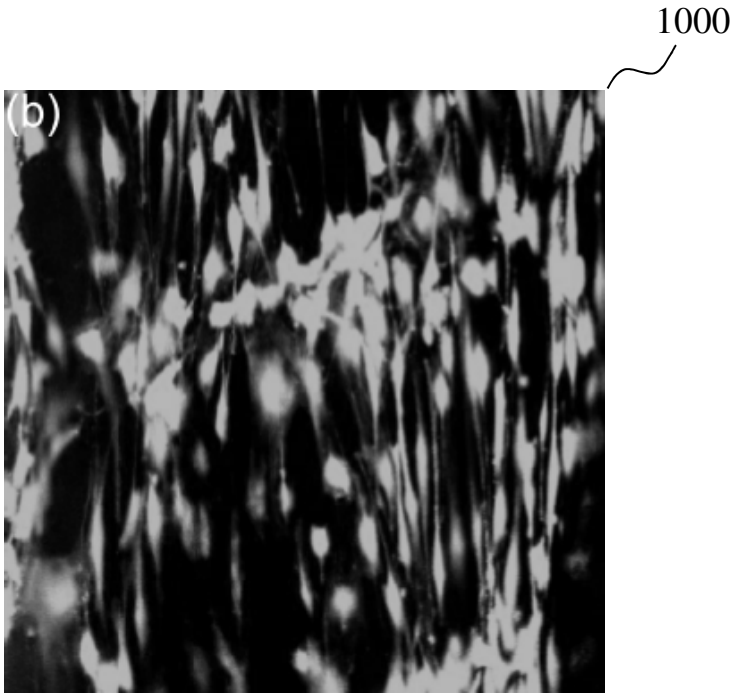

1000
(b)

FIG. 10

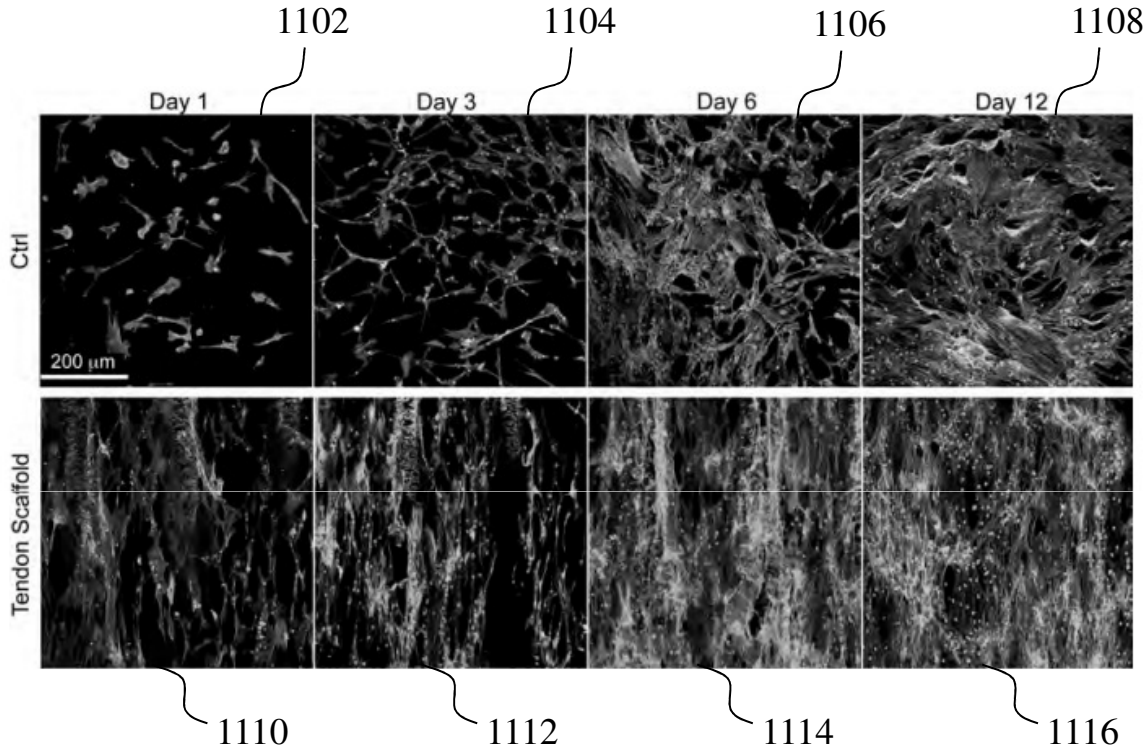

1102
1104
1106
1108
Day 1
Day 3
Day 6
Day 12
Ctrl
200 μm
Tendon Scaffold
1110
1112
1114
1116

FIG. 11

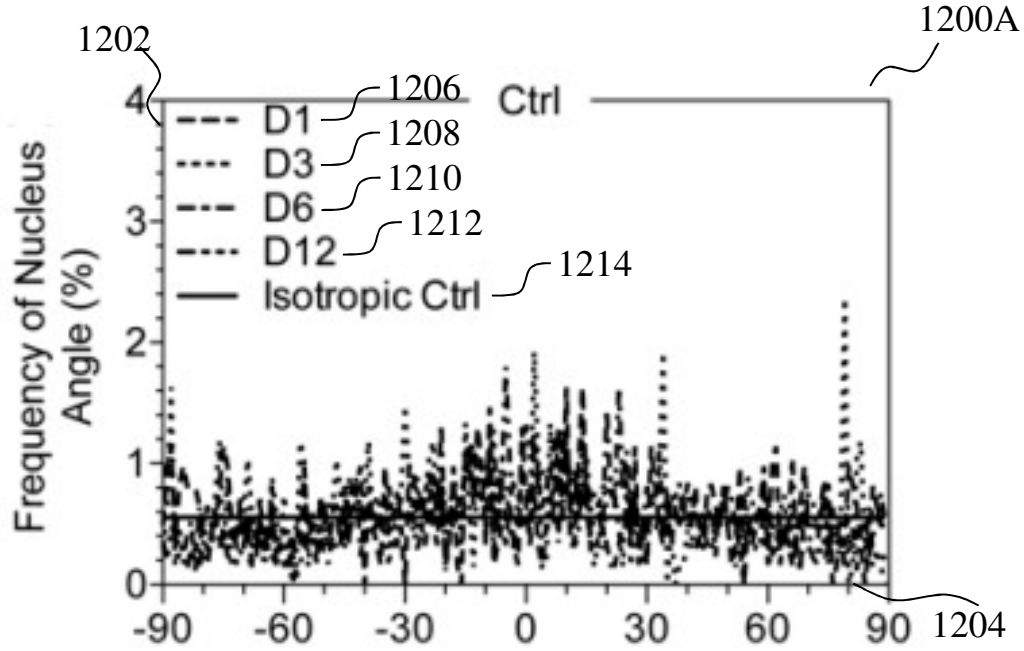


FIG. 12A

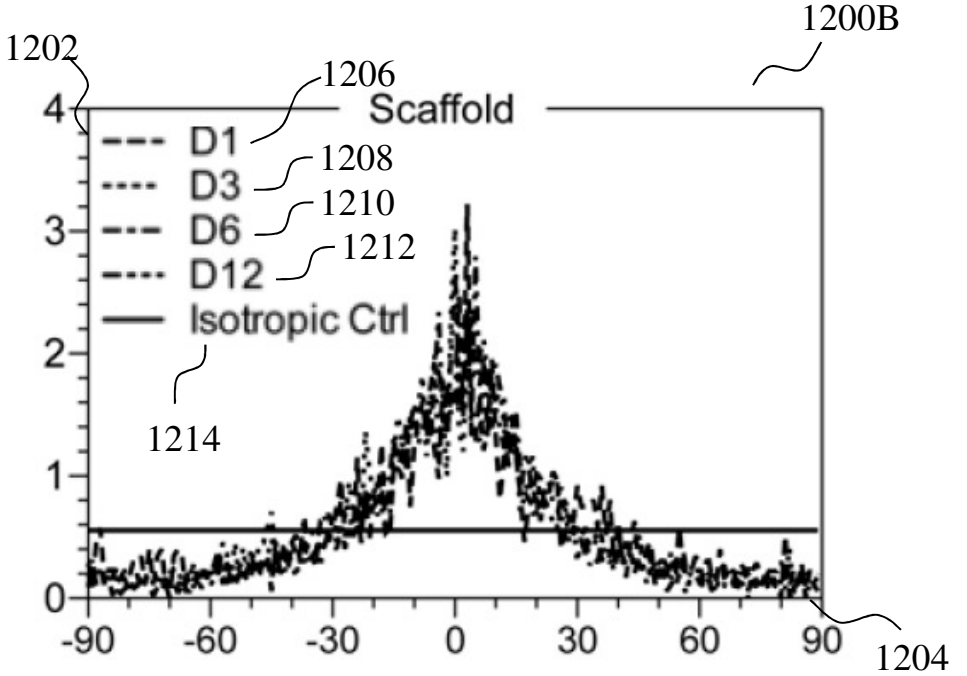


FIG. 12B

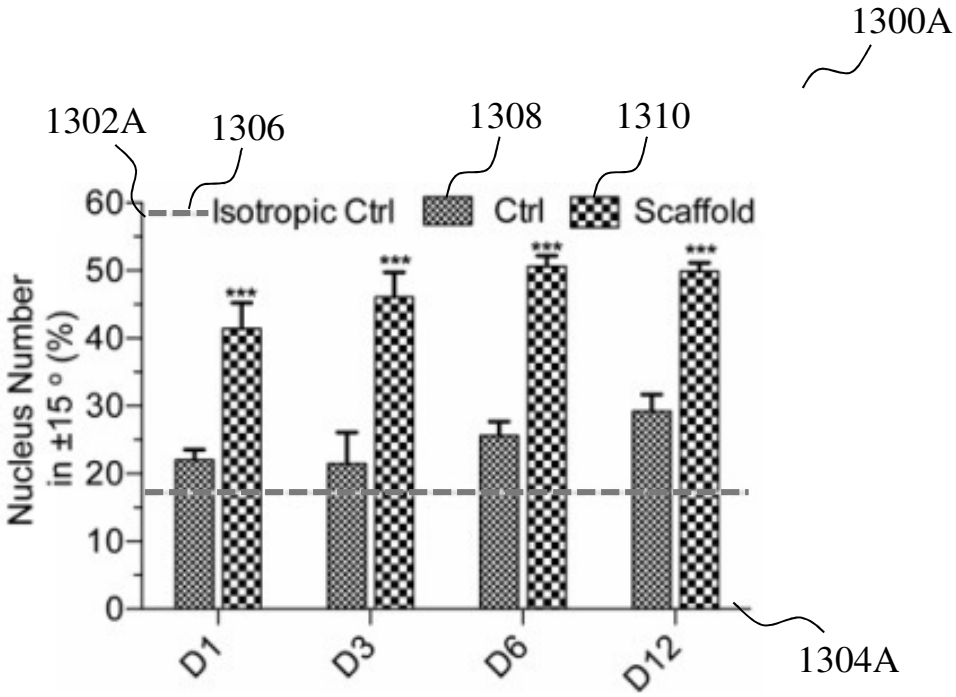


FIG. 13A

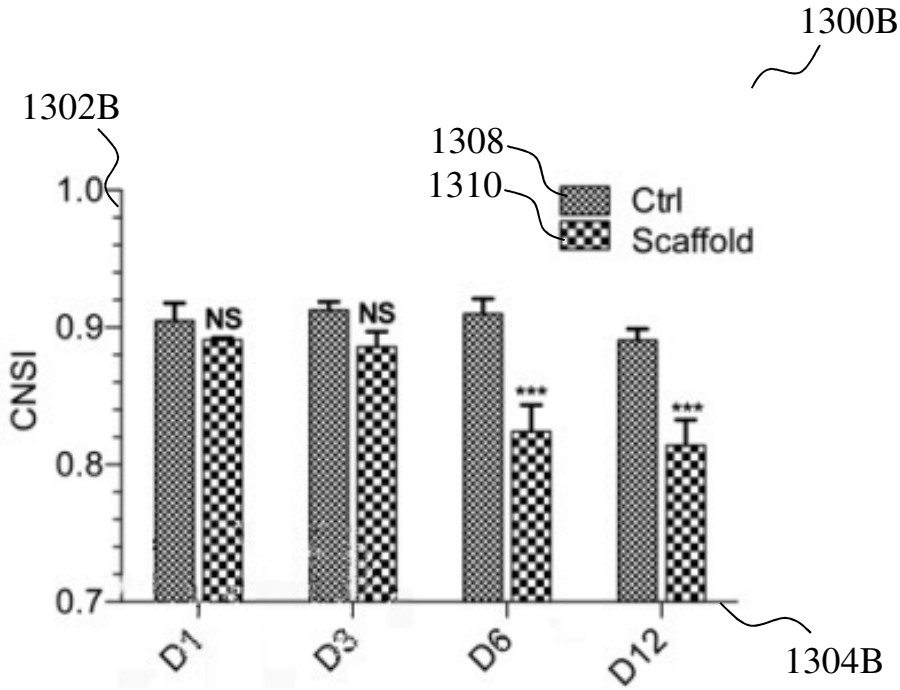


FIG. 13B

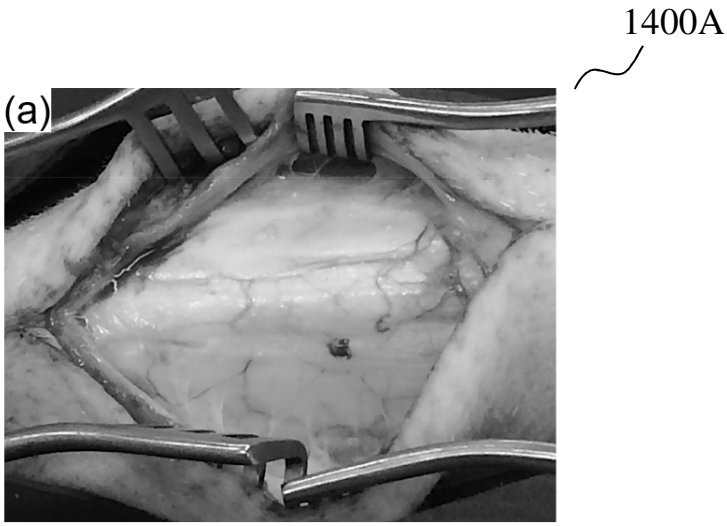


FIG. 14A

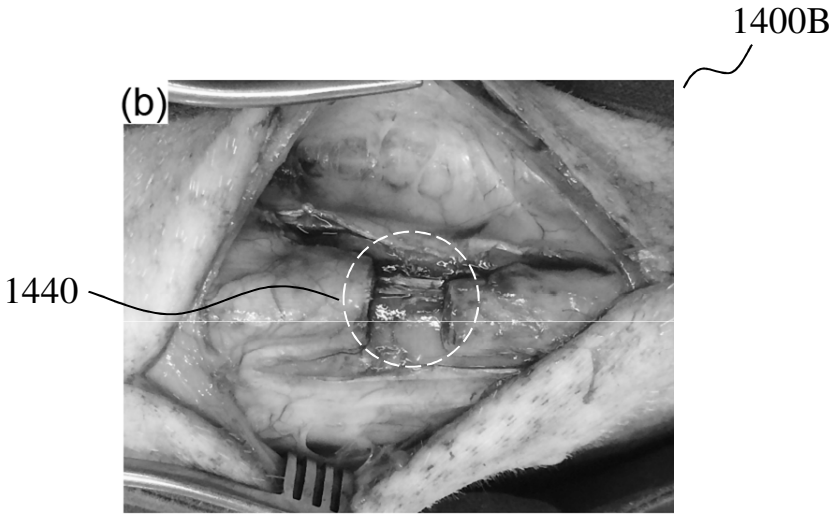


FIG. 14B

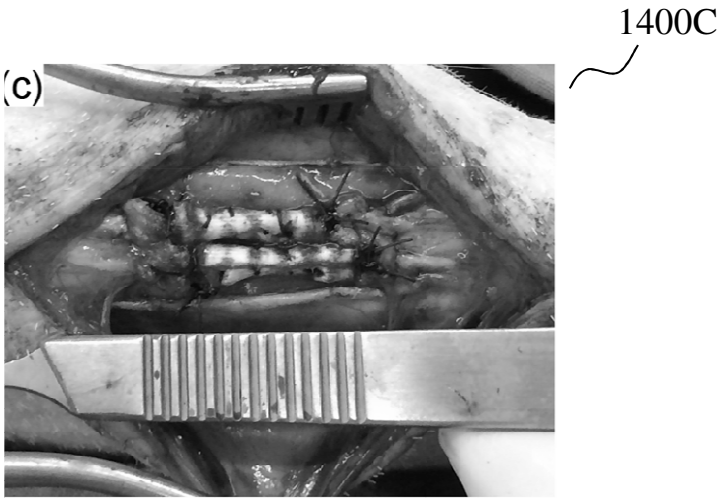


FIG. 14C

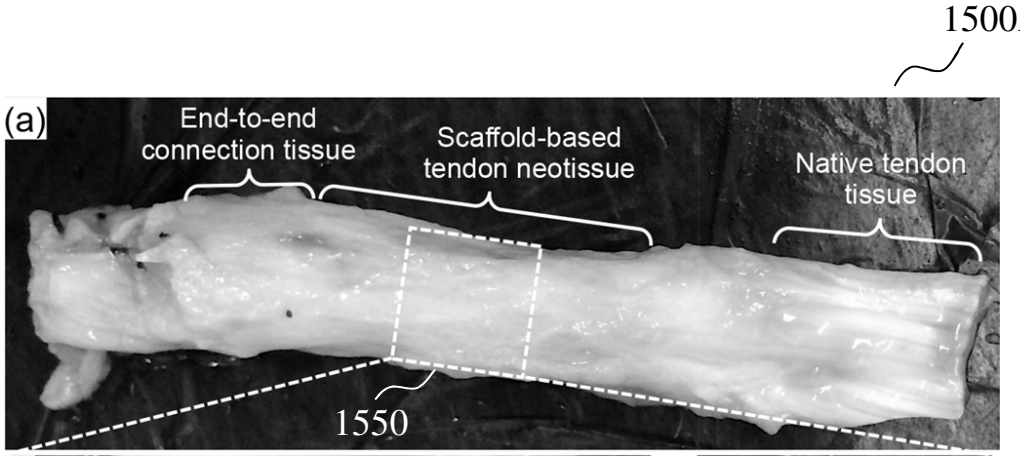


FIG. 15A



FIG. 15B

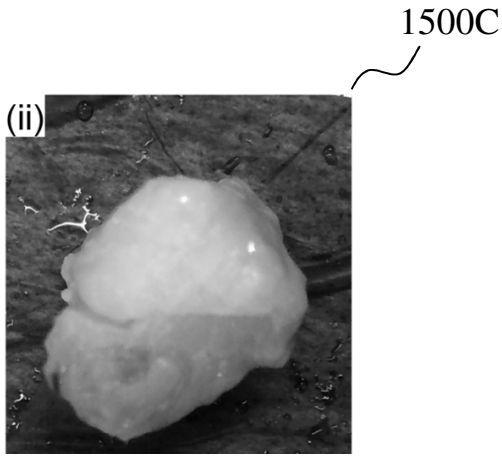


FIG. 15C

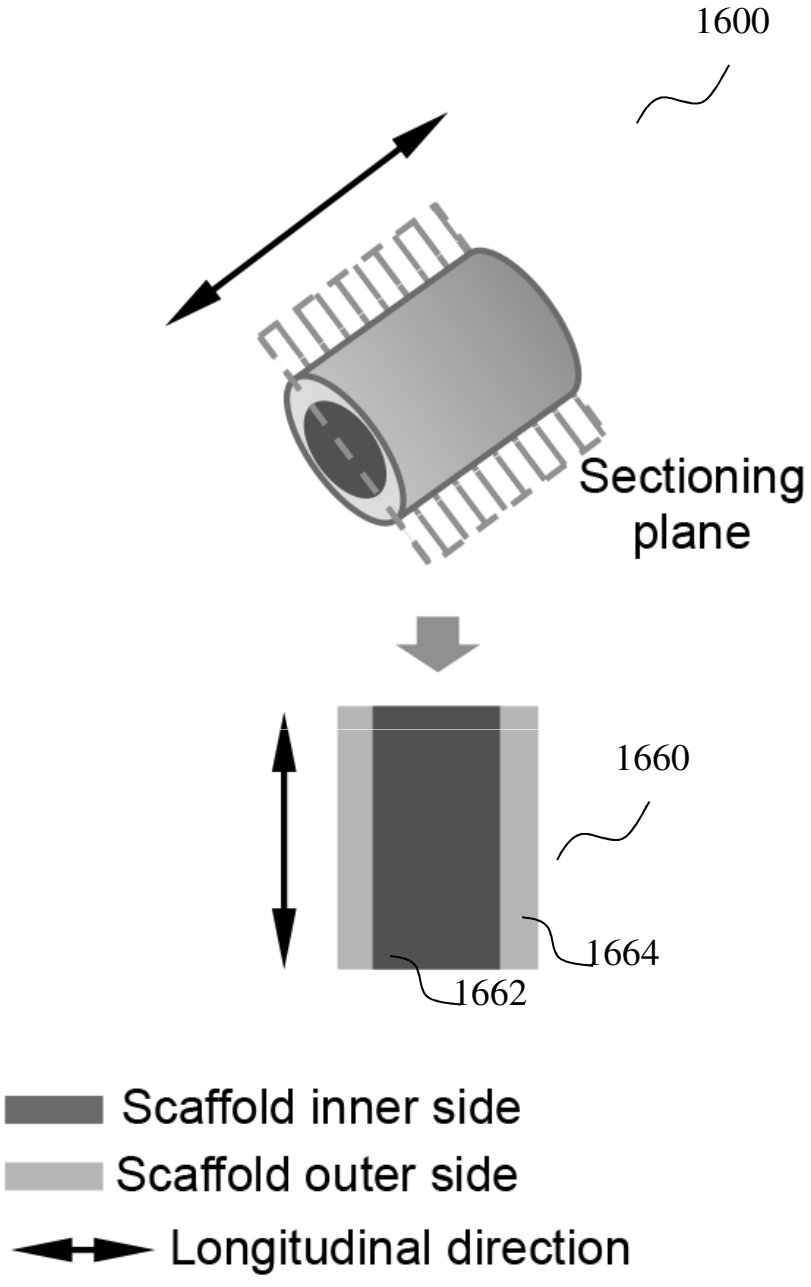

1600
Sectioning plane
1660
1664
1662
Scaffold inner side
Scaffold outer side
Longitudinal direction

FIG. 16

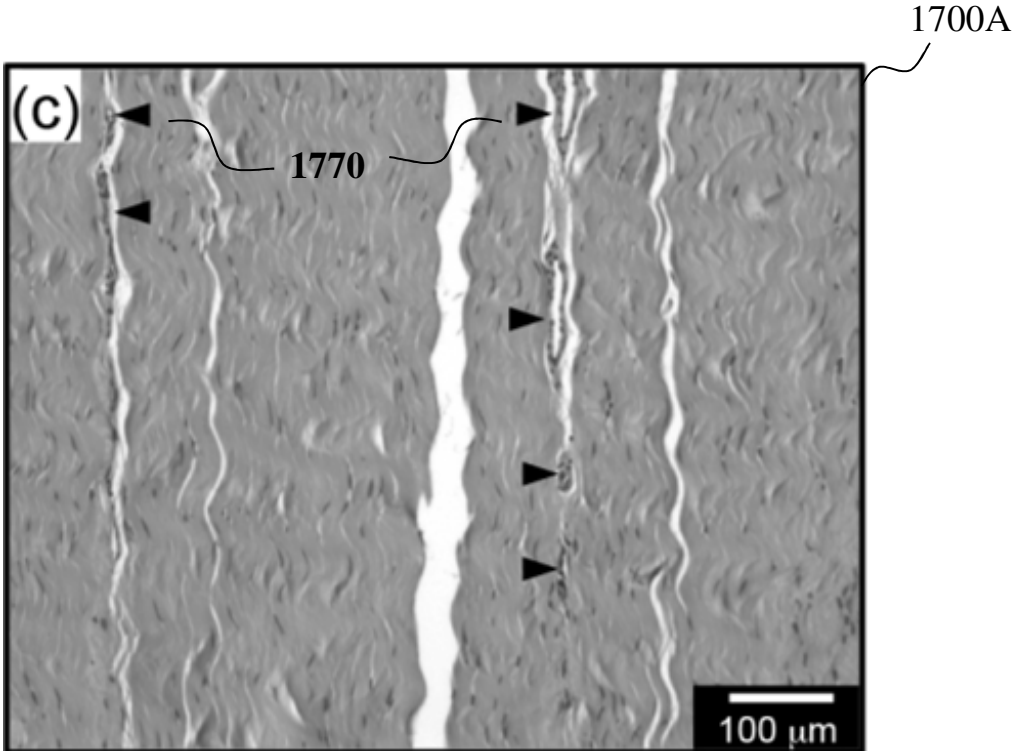


FIG. 17A

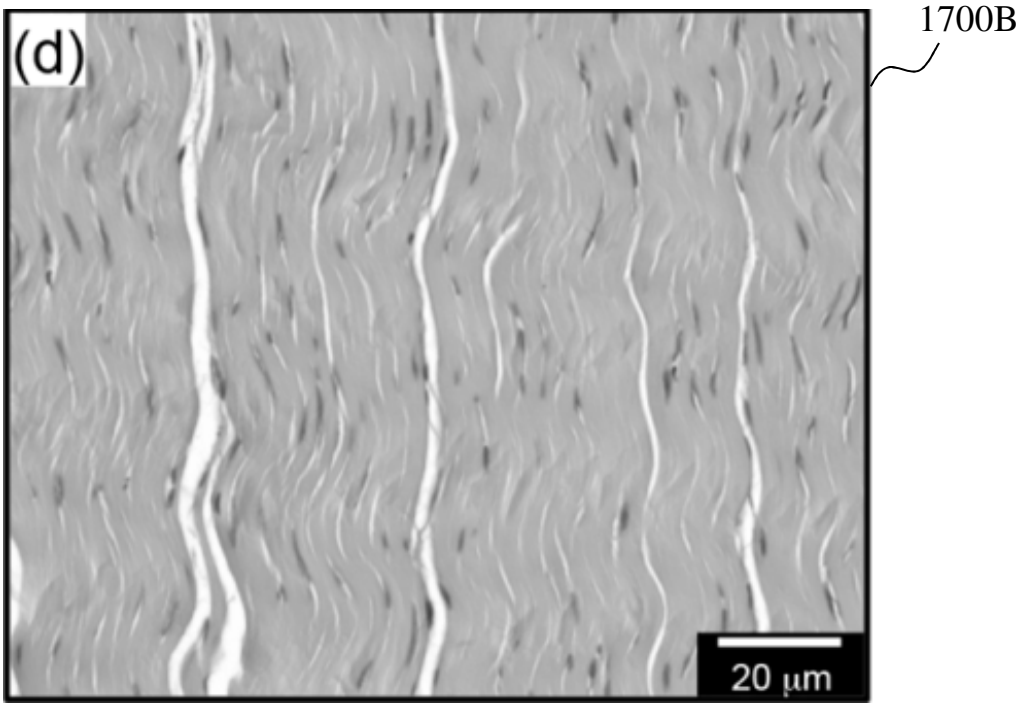


FIG. 17B

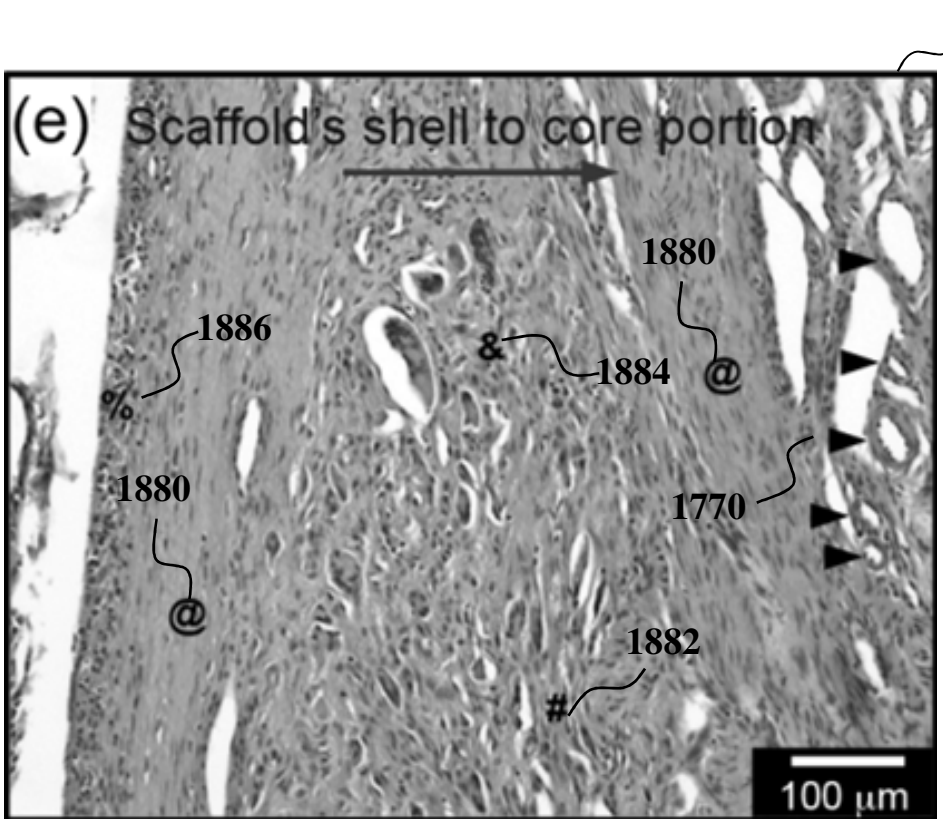


FIG. 18A

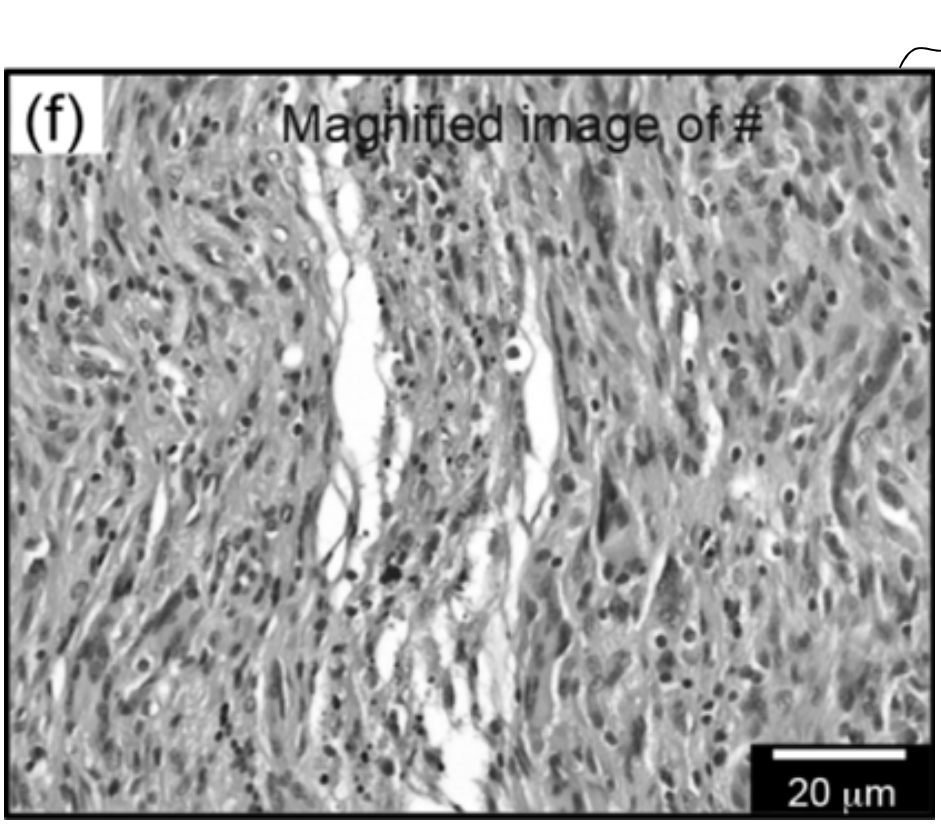


FIG. 18B

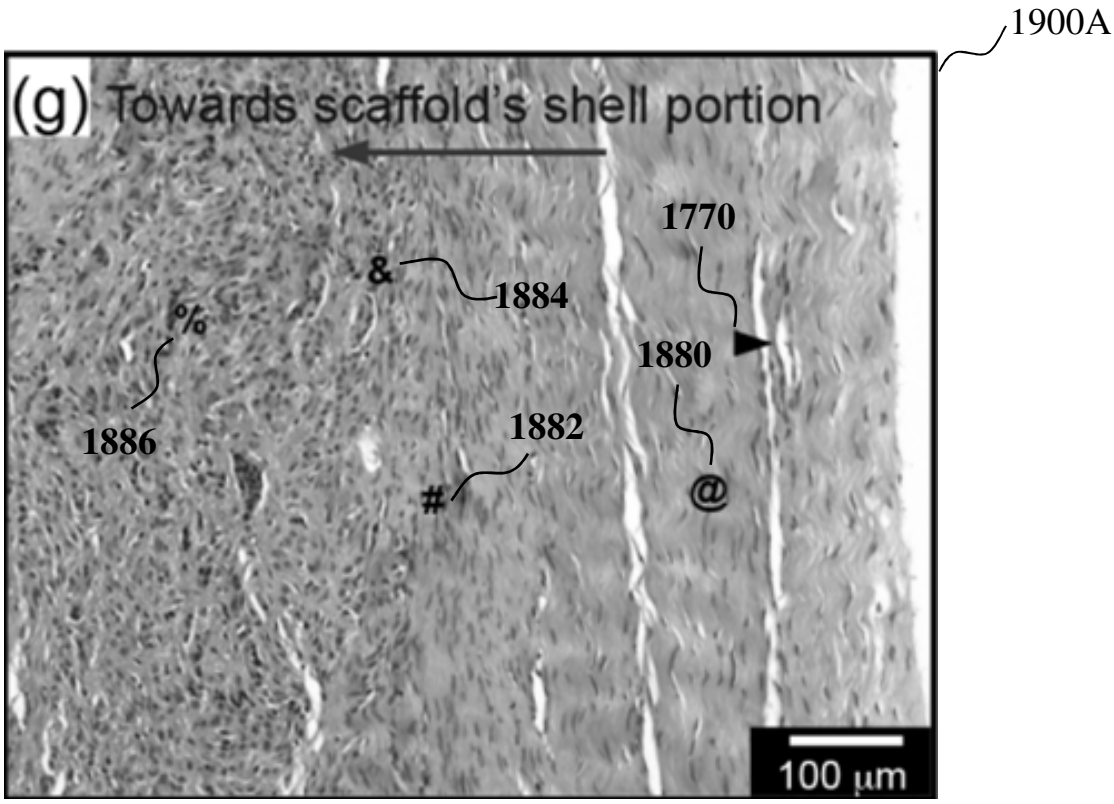


FIG. 19A

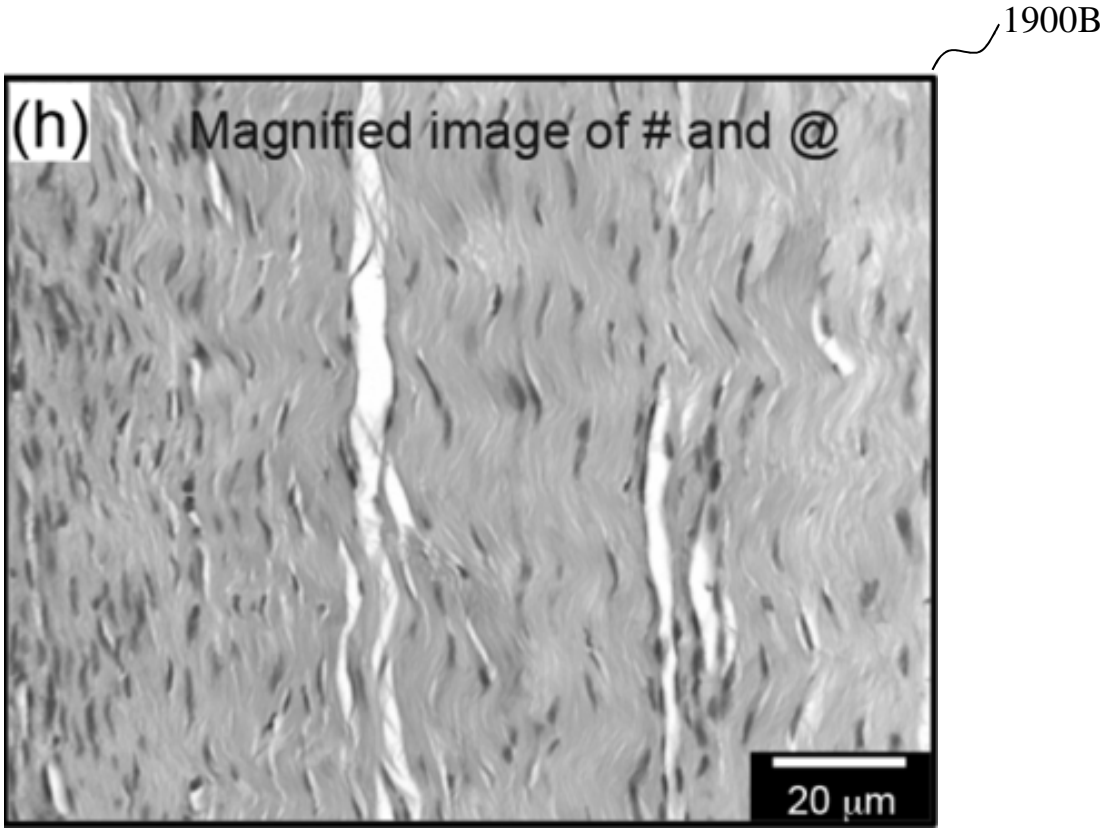


FIG. 19B