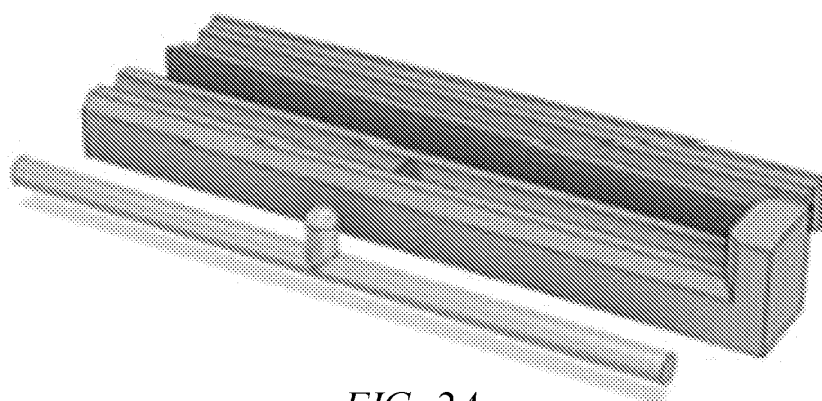


Two 3-D printed mold pieces (A) are compressed together (B) and molten gallium is cast into the cavity. The solidified gallium (C) is removed from the mold and nanofibers are electrospun onto it (D). The gallium is melted out, leaving only the hollow nanofibrous scaffold (E) in the desired shape which is then seeded with cells and matured (F) in a bioreactor.

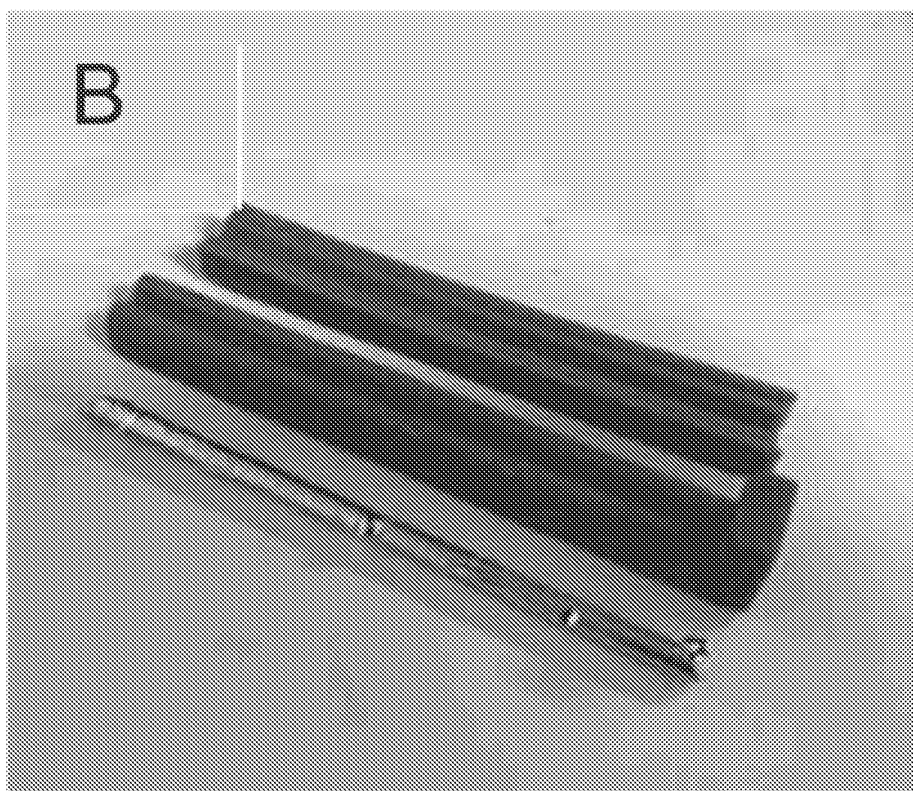
FIG. 1

A

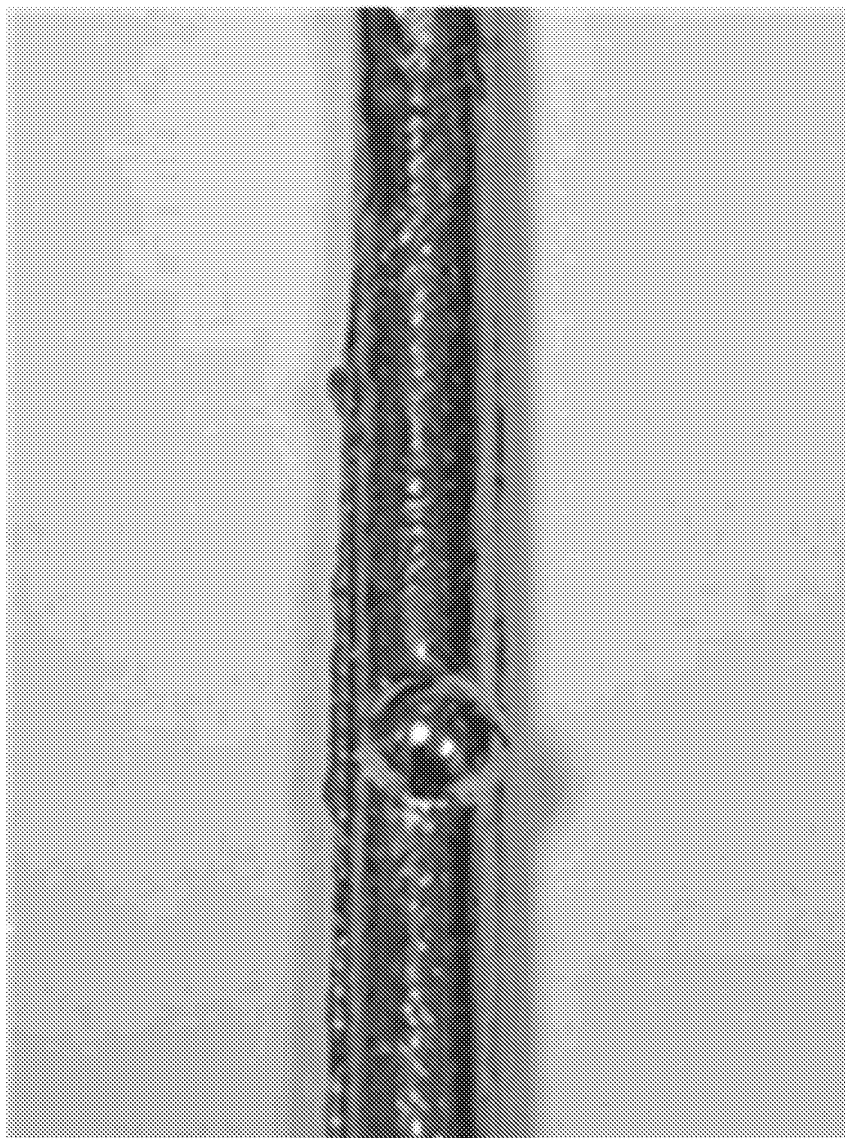


*FIG. 2A*

B

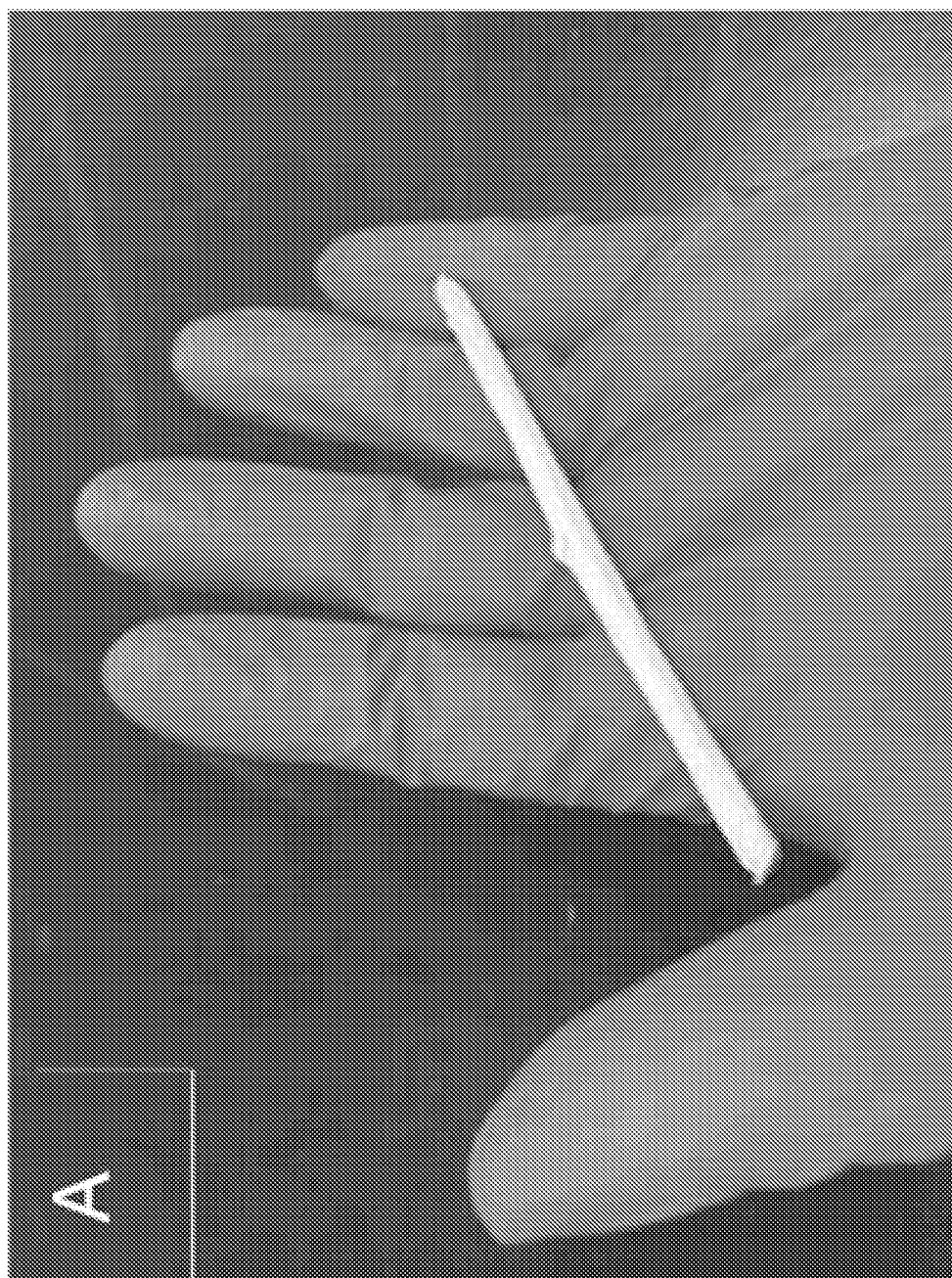


*FIG. 2B*



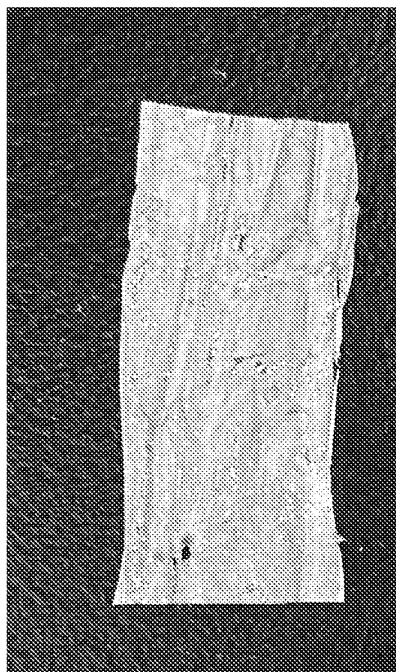
Close-up of the gallium after solidifying overnight and being removed from the mold.

*FIG. 2C*

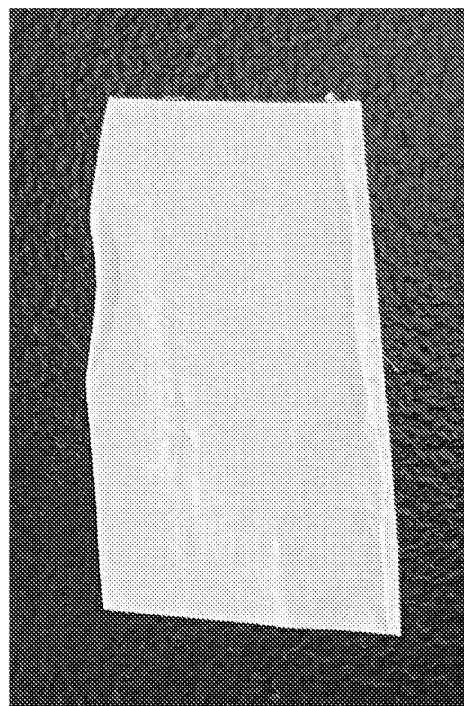


*FIG. 2D*

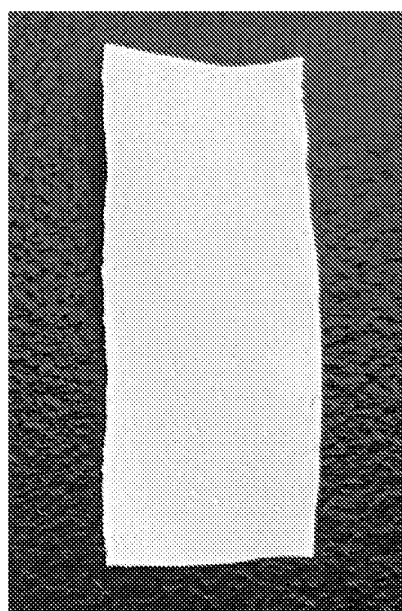
The scaffold after the gallium was melted out.



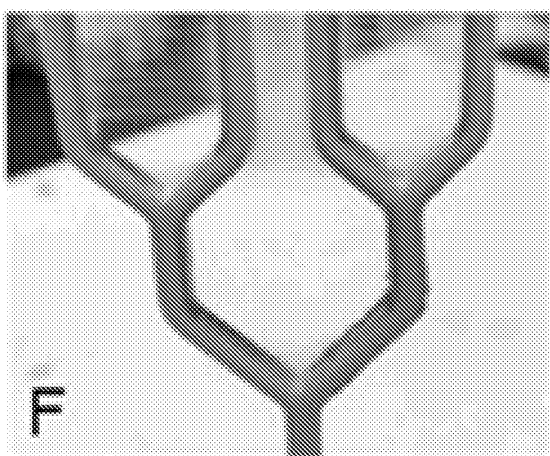
*FIG. 3A*



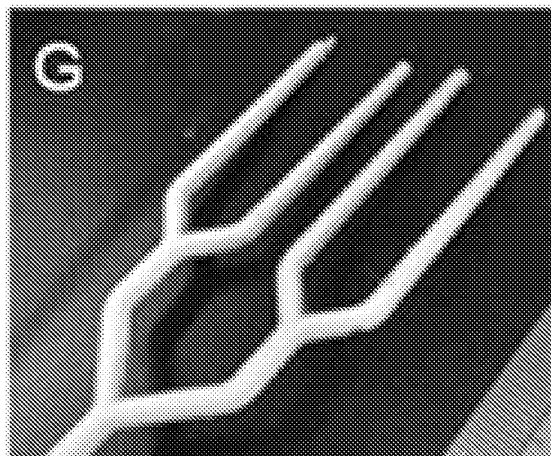
*FIG. 3B*



*FIG. 3C*



*FIG. 4A*



*FIG. 4B*

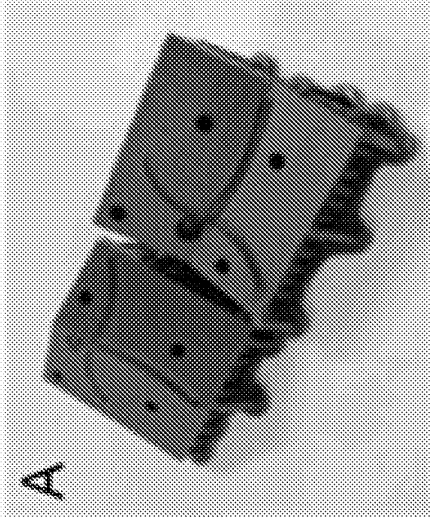


FIG. 5A

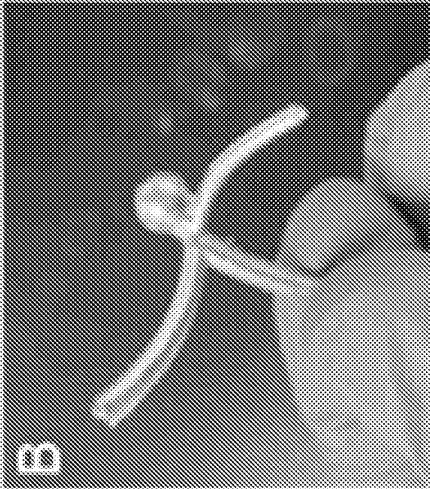


FIG. 5B

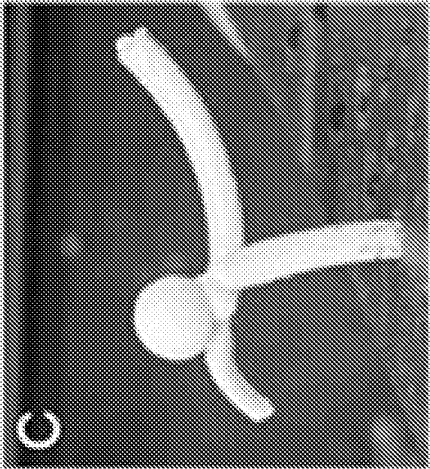


FIG. 5C