

Magnetically Stabilized Magnetocaloric Microchannel

Disclosure Number

201503570

Technology Summary

The invention relates to Magnetocaloric refrigeration devices and more specifically to an application for porous stabilized beds for use in such devices. Disclosed are methods of manufacture and articles of manufacture that comprise metallic particles aligned into chains under magnetic processing to form channels. After sintering the particles together at elevated temperature, an article comprising a series of microchannels is created.

Inventor

MEHDIZADEH MOMEN, AYYOUB
Energy & Transportation Science Division

Licensing Contact

SIMS, DAVID L

UT-Battelle, LLC

Oak Ridge National Laboratory

Rm 124C, Bldg 4500N6196

1 Bethel Valley Road

Oak Ridge, TN 37831

Office Phone: (865) 241-3808

E-Mail: SIMSDL@ORNL.GOV