

Binderless Composite Scintillator for Neutron Detection

Disclosure Number

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Technology Summary

Preparation of new heterogeneous inorganic scintillator screens that detect thermal and epithermal neutrons with high efficiency. The high optical transparency of the inorganic material allows scintillation light propagation through neutron absorbing screens as thick as 1 mm. The scintillation response time is very fast and would be of benefit in high count rate neutron detectors.

Inventor

HODGES, JASON P

SNS Experimental Facilities Division

Licensing Contact

REEVES, MARK E

UT-Battelle, LLC

Oak Ridge National Laboratory

Rm 145, Bldg 4500N, MS: 6196

1 Bethel Valley Road

Oak Ridge, TN 37831

Office Phone: (865) 576-2577

E-mail: REEVESME@ORNL.GOV

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