

Inorganic Optical Taggant and Method of Making

Disclosure Number

200201017

Technology Summary

The subject invention disclosed herein comprises ceramic microbeads, preferably alumina, zirconia, zirconium phosphate, or yttrium aluminum garnet (YAG), doped with one or more optically active species. The beads of the present invention may be added to substances such as explosives in order to create a distinctive optical signature that identifies a manufacturer, lot number, etc. in the event of the need for forensic analysis. The beads of the subject invention could also be formulated into paints if needed to create distinctive optical signatures for camouflage, decoys, or other countermeasures and could also be applied as a dust to track the movement of personnel, vehicles, etc.

Inventor

LAUF, ROBERT J

Environmental Sciences Division

Licensing Contact

SPECK, ROBERTA R

UT-Battelle, LLC

Oak Ridge National Laboratory

Rm 141, Bldg 4500N, MS: 6196

1 Bethel Valley Road

Oak Ridge, TN 37831

Office Phone: (865) 576-4680

E-mail: SPECKRR@ORNL.GOV

Note: The technology described above is an early stage opportunity. Licensing rights to this intellectual property may be limited or unavailable. Patent applications directed towards this invention may not have been filed with any patent office.