



Thermoelectric Materials Based on Tetrahedrite Structure for Thermoelectric Devices

Tech ID: 24590 / UC Case 2013-066-0

INNOVATION

Professor Vidvuds Ozolins and colleagues have devised a new class of lightweight and low-cost compounds for thermoelectric devices. Traditionally, thermoelectric materials are comprised of elements that are toxic, and of low abundance. This technology utilizes earth-abundant, light atomic mass compounds with tetrahedrite structures to produce high-efficiency thermoelectrics via basic, scalable processing techniques. The technology has potential applications in numerous energy-related industries, including automotive and solar cells.

PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	10,658,560	05/19/2020	2013-066
Japan	Issued Patent	6219386	10/06/2017	2013-066
United States Of America	Issued Patent	9,673,369	06/06/2017	2013-066
Canada	Published Application	WO2014008414	01/09/2014	2013-066
Republic Of Korea (South Korea)	Published Application	WO2014008414	01/09/2014	2013-066

CONTACT

UCLA Technology Development Group
ncd@tdg.ucla.edu
tel: 310.794.0558.



INVENTORS

► Ozolins, Vidvuds

OTHER INFORMATION

KEYWORDS

Thermoelectrics, tetrahedrite, solar cells

CATEGORIZED AS

- **Energy**
 - Other
 - Solar
 - Transmission
- **Materials & Chemicals**
 - Chemicals
 - Nanomaterials
 - Other

RELATED CASES

2013-066-0

Gateway to Innovation, Research and Entrepreneurship

UCLA Technology Development Group
10889 Wilshire Blvd., Suite 920, Los Angeles, CA 90095
<https://tdg.ucla.edu>
Tel: 310.794.0558 | Fax: 310.794.0638 | ncd@tdg.ucla.edu

© 2014 - 2020, The Regents of the University of California
[Terms of use](#)
[Privacy Notice](#)

