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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

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INVENTORS

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OTHER INFORMATION

KEYWORDS

Thermoelectrics, tetrahedrite, solar cells

CATEGORIZED AS

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

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