

Title (en)
THERMOELECTRIC DEVICE AND METHOD FOR PRODUCING SAME

Title (de)
THERMOELEKTRISCHE VORRICHTUNG SOWIE HERSTELLUNGSVERFAHREN DERSELBEN

Title (fr)
DISPOSITIF THERMOÉLECTRIQUE ET PROCÉDÉ DE RÉALISATION

Publication
EP 3289621 A1 20180307 (DE)

Application
EP 16717941 A 20160422

Priority
• DE 102015207857 A 20150429
• EP 2016058955 W 20160422

Abstract (en)
[origin: WO2016173931A1] The invention relates to a thermoelectric device (100) with a printed circuit board (102), a component (104) which is arranged on the printed circuit board (102), a cover (106) which covers the printed circuit board (102), a thermoelectric generator (180), and a spring unit (112). The thermoelectric generator (180) is thermally connected to the printed circuit board (102) or metal paths (116) on the printed circuit board (102) and to the cover (106) in order to generate an electric supply voltage (U) for the component (104) from the temperature difference between the printed circuit board (102) and the cover (106). The spring unit (112) elastically holds the thermoelectric generator (180) between the printed circuit board (102) and the cover (106). Another aspect of the invention relates to a method for producing such a thermoelectric device (100).

IPC 8 full level
H01L 35/32 (2006.01); **H05K 1/02** (2006.01)

CPC (source: EP US)
H05K 1/0271 (2013.01 - EP US); **H10N 10/01** (2023.02 - EP US); **H10N 10/17** (2023.02 - EP US); **H10N 10/813** (2023.02 - EP US); **H10N 10/82** (2023.02 - EP US); **H01L 2224/48091** (2013.01 - EP US); **H01L 2224/48227** (2013.01 - EP); **H01L 2224/72** (2013.01 - EP); **H05K 1/0277** (2013.01 - EP US); **H05K 2201/09063** (2013.01 - EP US); **H05K 2201/10219** (2013.01 - EP US); **H05K 2203/049** (2013.01 - EP US); **H05K 2203/308** (2013.01 - EP US)

Citation (search report)
See references of WO 2016173931A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2016173931 A1 20161103; CN 107534400 A 20180102; DE 102015207857 A1 20161103; EP 3289621 A1 20180307; US 2018123014 A1 20180503

DOCDB simple family (application)
EP 2016058955 W 20160422; CN 201680024484 A 20160422; DE 102015207857 A 20150429; EP 16717941 A 20160422; US 201615566784 A 20160422