

Title (en)  
THERMIONIC CAPACITOR CHARGEABLE BY SORET-EFFECT USING A GRADIENT TEMPERATURE

Title (de)  
DURCH SORET-EFFEKT AUFLADBARER THERMIONENKONDENSATOR UNTER VERWENDUNG EINER GRADIENTENTEMPERATUR

Title (fr)  
CONDENSATEUR THERMIONIQUE POUVANT ÊTRE CHARGÉ PAR EFFET SORET À L'AIDE D'UN GRADIENT DE TEMPÉRATURE

Publication  
**EP 3857700 A1 20210804 (EN)**

Application  
**EP 19787450 A 20190924**

Priority

- PT 11503518 A 20180924
- IB 2019058099 W 20190924

Abstract (en)  
[origin: WO2020065533A1] Thermionic capacitor chargeable by a gradient temperature, comprising nanostructured-carbon electrodes and a polymer solid-gel electrolyte comprising cations and anions thermodiffusable under a gradient temperature between said electrodes by Soret-effect. The capacitor may be planar wherein the electrodes are arranged along two separate regions of a planar substrate being separated by an intermediate region of said substrate, with the electrolyte being laid over said electrodes and said intermediate region. The capacitor may be layered, each electrode being a nanostructured-carbon coated layer, comprising an intermediate layer of electrolyte between the electrode layers, wherein said layers form a stack, in particular said layers being comprised in a textile layer or being textile layers.

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**H02N 3/00** (2006.01); **H01L 37/00** (2006.01)

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Citation (search report)  
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Cited by  
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