

Title (en)

BIODEGRADABLE ELECTROCHEMICAL DEVICE WITH BARRIER LAYER

Title (de)

BIOLOGISCH ABBAUBARE ELEKTROCHEMISCHE VORRICHTUNG MIT BARRIERESCHICHT

Title (fr)

DISPOSITIF ÉLECTROCHIMIQUE BIODÉGRADABLE AVEC COUCHE-BARRIÈRE

Publication

**EP 4313591 A1 20240207 (EN)**

Application

**EP 22719072 A 20220330**

Priority

- US 202163168380 P 20210331
- US 2022022475 W 20220330

Abstract (en)

[origin: WO2022212454A1] An electrochemical device is disclosed and may include an electrolyte composition disposed between the anode and the cathode and a water vapor barrier which may include a biodegradable material, where the water vapor barrier is disposed to prevent water vapor escaping from the electrochemical device. The water vapor barrier further may include polylactic acid or a metalized coating. The water vapor barrier further may further include multiple layers and have a water vapor transmission rate (WVTR) less than or equal to 2 wt % over 24 hours. Embodiments of the water vapor barrier may also include a polymeric biodegradable material or a metalized coating disposed onto the biodegradable material. The water vapor barrier may also include multiple layers and may have a water vapor transmission rate (WVTR) less than or equal to 1 mg per cm<sup>2</sup> over 24 hours.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

See references of WO 2022212454A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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DOCDB simple family (application)

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