

Title (en)
BATTERY SEPARATOR

Title (de)
BATTERIESEPARATOR

Title (fr)
SEPARATEUR DE PILE

Publication
EP 1074055 A4 20050713 (EN)

Application
EP 98963895 A 19981214

Priority

- US 9826488 W 19981214
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Abstract (en)
[origin: WO9934459A1] A separator (16) for batteries that does not include a layer of membrane material is provided. The separator (16) includes two layers (16a, 16b) of materials that are disposed adjacent each other. The layers can be formed of the same or different materials. The materials can be woven or nonwoven. In certain embodiments, the layers are formed of the same nonwoven, non-membrane material which is a matrix of polyvinyl alcohol fibers, cellulose fibers and a polyvinyl alcohol binder.

IPC 1-7
H01M 2/16

IPC 8 full level
H01M 6/06 (2006.01); **H01M 50/414** (2021.01); **H01M 50/429** (2021.01); **H01M 50/449** (2021.01); **H01M 50/489** (2021.01); **H01M 4/62** (2006.01); **H01M 50/403** (2021.01)

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H01M 4/622 (2013.01 - EP); **H01M 6/06** (2013.01 - EP); **H01M 50/414** (2021.01 - EP US); **H01M 50/429** (2021.01 - EP US); **H01M 50/4295** (2021.01 - EP); **H01M 50/44** (2021.01 - EP); **H01M 50/446** (2021.01 - EP); **H01M 50/449** (2021.01 - EP US); **H01M 50/489** (2021.01 - EP US)

Citation (search report)

- [PX] FR 2751469 A1 19980123 - ACCUMULATEURS FIXES [FR]
- [XY] US 3894889 A 19750715 - GILLMAN LELAND M, et al
- [X] US 3186877 A 19650601 - DOUCHAN STANIMIROVITCH
- [Y] US 5667911 A 19970916 - YU WEI-CHING [US], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 010, no. 005 (E - 372) 10 January 1986 (1986-01-10)
- See references of WO 9934459A1

Designated contracting state (EPC)
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US 9826488 W 19981214; AR P980106709 A 19981229; AU 1913099 A 19981214; CA 2313645 A 19981214; CN 98812837 A 19981214; EP 98963895 A 19981214; JP 2000526983 A 19981214; TW 87121899 A 19981230