Title (en)

APPARATUS AND METHOD FOR THE SELF-LEVELLING OF LIQUID IN A CONTAINER

Publication

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Application

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Priority

US 8902345 W 19890530

Abstract (en)

[origin: WO9015333A1] New and improved apparatus and method for the self-levelling of a liquid in a container (10) to a precisely predetermined level, with a concave meniscus, are provided and comprise a plurality of ribs (14, 16) defining with the container inner surface (28) one or more capillary pathways formed by the rib-container surface junctures (30, 32, 34, 36) operatively associated with the container (10) and operable upon contact therewith by the liquid within the container (10) to flow liquid out of the container (10) until the liquid has assumed the precisely predetermined level within the container (10) and to provide a concave liquid meniscus at that level. Central support of a predetermined volume of an immiscible isolation liquid on the concave meniscus of the liquid in the container (10) of the precisely determined liquid level is also disclosed.

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Citation (search report)

- [A] EP 0215419 A2 19870325 - MILES LAB [US]
- [AD] US 4758409 A 19880719 - UFFENHEIMER KENNETH F [US]
- [A] DE 8715505 U1 19880218
- [A] DE 2200385 A1 19730712 - GERSTEL EBERHARD
- See references of WO 9015333A1

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