

Title (en)

A TRANSPORTING, STORAGE OR DISPENSING CONTAINER WITH ENZYME REACTOR

Publication

EP 0397734 A4 19910130 (EN)

Application

EP 89901639 A 19881222

Priority

US 13724887 A 19871223

Abstract (en)

[origin: WO8906273A1] A container (10) for transporting, storing and dispensing liquids, solutions, suspensions, emulsions, mixtures or wet solids is fitted with a retainer or reactor (22) to retain, restrict, immobilize, hold, trap or confine a wide variety of natural or semi-synthetic enzymes, multi-enzyme systems, organelles, and cells, both living and dead. These later complex structures include, but are not limited to, mitochondria, chloroplasts, biologic membranes, cell or organelle walls, yeasts, bacteria, animal and plant cells and fragments of the above complex structures. In a fashion similar to the holding, trapping, confining or retaining of single enzymes, multi-enzyme systems, organelles and cells can be incorporated into reactors which are part of the container to achieve the desired chemical and biochemical reactions or a series of these reactions.

IPC 1-7

C12M 1/40

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [X] FR 2171108 A1 19730921 - NAT PATENT DEV CORP [US]
- [X] EP 0133346 A2 19850220 - THOMAS KEITH ROBERT [GB], et al
- [X] EP 0236751 A2 19870916 - SARTORIUS GMBH [DE]
- [X] DE 8520835 U1 19880331
- See references of WO 8906273A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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