

Title (en)

A STERILIZABLE CULTIVATION SYSTEM WITH SEPARATELY ATTACHABLE MICROFILTRATION MEMBRANE

Title (de)

STERILISIERBARES ZUCHTSYSTEM MIT GETRENNT ANBRINGBAREN MIKROFILTRATIONSMEMBRAN

Title (fr)

SYSTEME DE CULTURE POUVANT ETRE STERILISE A MEMBRANE DE MICROFILTRATION CAPABLE D'ETRE FIXEE LIBERABLE

Publication

**EP 1183187 A4 20040317 (EN)**

Application

**EP 99970640 A 19991021**

Priority

- CA 2299116 A 20000222
- CN 98229712 U 19981021
- CN 98229711 U 19981021
- US 9924559 W 19991021
- US 42203099 A 19991020

Abstract (en)

[origin: WO0023331A2] A sterilizable cultivation system is provided for growing selected organisms for use in biological applications and the cultivation edible fungi. A sealable, sterilizable container holds a growth substrate in a sterile condition. A separate, adhesive vent filter is provided, which is adhereable to a vent opening in the container. The vent filter is gas permeable and allows gas exchange between the interior of the container and the ambient environment, but prevents the passage of microbes and other organisms into or out of the container. This gas exchange prevents excess carbon dioxide from accumulating in the container and allows necessary oxygen into the container in order to maintain an appropriate growth environment for the selected organisms. The vent filter may be combined with the container (a) during manufacture of new containers, or (b) in the field by the end-user on new containers or on re-cycled containers. The separately provided vent filters allow the end-user to adjust certain parameters of the growth environment within the container in the field. This is accomplished by adjusting the venting characteristics of the cultivation system, by increasing or reducing the amount and quality of the vent filters on the container.

IPC 1-7

**B65D 1/00; C12M 1/24**

IPC 8 full level

**C12M 1/00** (2006.01)

CPC (source: EP)

**A01G 9/02** (2013.01); **A01G 18/66** (2018.01); **C12M 23/14** (2013.01); **C12M 23/24** (2013.01); **C12M 29/04** (2013.01); **C12M 29/20** (2013.01); **C12M 37/02** (2013.01)

Citation (search report)

- [X] US 4311477 A 19820119 - KITAMURA RYUTARO, et al
- [X] US 4027427 A 19770607 - STOLLER BENJAMIN B, et al
- [X] US 4935371 A 19900619 - RICKLOFF JAMES R [US]
- [A] US 4271270 A 19810602 - LUKACSEK PATRICIA A
- [A] DE 3218532 A1 19831117 - GREINER & SOEHNE C A [DE]
- [A] US 6358731 B1 20020319 - HSU WEI K [US]
- [A] WO 9115569 A1 19911017 - COMMW SCIENT IND RES ORG [AU]
- [A] US 5230430 A 19930727 - KIDDER JOHN W [US]
- See references of WO 0023331A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**WO 0023331 A2 20000427; WO 0023331 A3 20000824; WO 0023331 A9 20020822; CA 2299116 A1 20010822; EP 1183187 A2 20020306; EP 1183187 A4 20040317**

DOCDB simple family (application)

**US 9924559 W 19991021; CA 2299116 A 20000222; EP 99970640 A 19991021**