

Title (en)

A METHOD OF IMPROVED MIXING IN ROLLER BOTTLES

Title (de)

METHODE FÜR VERBESSERTES MISCHEN IN ROLLFLASCHEN

Title (fr)

PROCEDE DE MELANGE AMELIORE DANS DES BOUTEILLES POUR AGITATEUR ROTATIF

Publication

**EP 1027425 A1 20000816 (EN)**

Application

**EP 98955135 A 19981027**

Priority

- GB 9727128 A 19971222
- US 9822729 W 19981027
- US 6385497 P 19971031
- US 6737197 P 19971203

Abstract (en)

[origin: WO9923204A1] A method for enhancing the mixing of materials in roller bottle by the introduction of controlled axial and cross-sectional flow perturbations is disclosed. The effectiveness of the method is demonstrated by achieving higher efficiency in cell culturing and virus propagation in roller bottles by introducing controlled flow perturbations during the process.

IPC 1-7

**C12N 5/02**

IPC 8 full level

**C12M 3/04** (2006.01); **C12N 5/02** (2006.01)

CPC (source: EP)

**C12M 27/12** (2013.01); **C12M 27/16** (2013.01)

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 9923204 A1 19990514**; AU 1201599 A 19990524; AU 737705 B2 20010830; CA 2308111 A1 19990514; CA 2308111 C 20101221; EP 1027425 A1 20000816; EP 1027425 A4 20060419; JP 2001521736 A 20011113

DOCDB simple family (application)

**US 9822729 W 19981027**; AU 1201599 A 19981027; CA 2308111 A 19981027; EP 98955135 A 19981027; JP 2000519064 A 19981027