

Title (en)  
MICRO-CLUSTER COMPOSITIONS

Title (de)  
MIKROCLUSTER-ZUSAMMENSETZUNGEN

Title (fr)  
COMPOSITIONS MICRO-AGREGEES

Publication  
**EP 1613352 A4 20090429 (EN)**

Application  
**EP 04757748 A 20040317**

Priority

- US 2004008039 W 20040317
- US 39391003 A 20030320
- US 42028003 A 20030421
- US 44716403 A 20030527
- US 68077103 A 20031007

Abstract (en)  
[origin: WO2004084807A2] Micro-clustered liquids, methods of manufacture and use. Culture media and cultures comprising micro-clustered water; use of micro-clustered culture media and cultures for cell, tissue and organ maintenance and growth; use in microbial biotechnology. Micro-clustered water compositions of bio-affecting agents, body-treating agents, and adjuvants or carriers, pharmaceutical and diagnostic compositions thereof. Methods of using the compositions involving administering them ex vivo to cells, tissues or organs, or in vivo to living bodies; and methods of making the compositions. Methods of hydrating foods and food ingredients in food processing systems with micro-clustered water. Edible foods, ingredients, flavoring and sweetening compositions containing micro-clustered water.

IPC 8 full level  
**A61K 47/00** (2006.01); **A23L 27/00** (2016.01); **C12N 5/02** (2006.01); **C12N 5/071** (2010.01); **C12N 5/0784** (2010.01); **C12N 5/0786** (2010.01)

IPC 8 main group level  
**A61K** (2006.01)

CPC (source: EP KR)  
**A23L 2/00** (2013.01 - EP); **A23L 33/10** (2016.07 - EP); **A61K 47/00** (2013.01 - KR); **A61P 1/00** (2017.12 - EP); **A61P 9/00** (2017.12 - EP); **A61P 13/12** (2017.12 - EP); **A61P 17/00** (2017.12 - EP); **A61P 25/00** (2017.12 - EP); **A61P 27/02** (2017.12 - EP); **A61P 29/00** (2017.12 - EP); **A61P 31/00** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **A61P 37/00** (2017.12 - EP); **A61K 9/0019** (2013.01 - EP)

Citation (search report)

- [X] US 6033678 A 20000307 - LORENZEN LEE H [US]
- [X] WO 0130754 A2 20010503 - BIO HYDRATION RES LAB INC [US], et al
- [E] EP 1407658 A1 20040414 - OKINAWA MIDORI SANGYO CO LTD [JP] & JP H05228476 A 19930907 - KOAAZU PATENT RAITO INTERNATL
- [X] DATABASE WPI Week 199340, Derwent World Patents Index; AN 1993-316790, XP002520601
- See references of WO 2004084807A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL LT LV MK

DOCDB simple family (publication)  
**WO 2004084807 A2 20041007; WO 2004084807 A3 20050506**; AU 2004224397 A1 20041007; BR PI0409023 A 20060328; CA 2519488 A1 20041007; EP 1613352 A2 20060111; EP 1613352 A4 20090429; JP 2006521811 A 20060928; KR 20060008299 A 20060126; MX PA05010042 A 20060525

DOCDB simple family (application)  
**US 2004008039 W 20040317**; AU 2004224397 A 20040317; BR PI0409023 A 20040317; CA 2519488 A 20040317; EP 04757748 A 20040317; JP 2006507242 A 20040317; KR 20057017653 A 20050920; MX PA05010042 A 20040317