

Title (en)

Cleaning compositions comprising chondroitinase

Title (de)

Chondroitinase enthaltende Reinigungszusammensetzungen

Title (fr)

Compositions de nettoyage contenant du chondroitinase

Publication

**EP 0747469 A1 19961211 (EN)**

Application

**EP 95303937 A 19950608**

Priority

EP 95303937 A 19950608

Abstract (en)

This invention concerns cleaning compositions like laundry compositions containing a chondroitinase enzyme. More in particular, the invention relates to compact detergent compositions, granular and liquids as well containing said chondroitinase enzyme.

IPC 1-7

**C11D 3/386**

IPC 8 full level

**C12N 9/88** (2006.01); **C11D 3/386** (2006.01); **C11D 17/06** (2006.01); **C11D 17/08** (2006.01)

CPC (source: EP)

**C11D 3/38636** (2013.01)

Citation (applicant)

- JP H04330280 A 19921118 - SEIKAGAKU KOGYO CO LTD
- EP 0576294 A2 19931229 - SEIKAGAKU KOGYO CO LTD [JP]
- US 4565647 A 19860121 - LLENADO RAMON A [US]
- GB 1082179 A 19670906 - CITRIQUE BELGE NV
- US 3929678 A 19751230 - LAUGHLIN ROBERT GENE, et al
- US 4228044 A 19801014 - CAMBRE CUSHMAN M
- EP 0000224 A1 19790110 - PROCTER & GAMBLE [US]
- US 4435307 A 19840306 - BARBESGAARD PEDER O [DK], et al
- GB 2075028 A 19811111 - NOVO INDUSTRI AS
- GB 2095275 A 19820929 - KAO CORP
- DE 2247832 A1 19730405 - RIKAGAKU KENKYUSHO
- EP 91202879 A 19911106
- WO 8909813 A1 19891019 - NOVO INDUSTRI AS [DK]
- EP 91202882 A 19911106
- US 13679793 A 19931014
- GB 1372034 A 19741030 - UNILEVER LTD
- WO 8809367 A1 19881201 - GENENCOR INC [US]
- US 4483781 A 19841120 - HARTMAN FREDERICK A [US]
- US 74044685 A 19850603
- EP 0133354 A1 19850220 - INTEROX CHEMICALS LTD [GB]
- US 4412934 A 19831101 - CHUNG STANLEY Y [US], et al
- US 4634551 A 19870106 - BURNS MICHAEL E [US], et al
- EP 0120591 A1 19841003 - PROCTER & GAMBLE [US]
- EP 91870207 A 19911213
- US 13662693 A 19931014
- EP 91202655 A 19911014
- US 4033718 A 19770705 - HOLCOMBE THOMAS CHARLES, et al
- BE 831368 A 19751103
- BE 821369 A 19750423
- BE 821370 A 19750423
- DE 2446686 A1 19760415 - HENKEL & CIE GMBH
- DE 2446687 A1 19760415 - HENKEL & CIE GMBH
- US 3935257 A 19760127 - RUEST DENNIS A, et al
- BE 840623 A 19761011
- GB 1379241 A 19750102 - UNILEVER LTD
- GB 1387447 A 19750319 - MONSANTO CO
- GB 1261829 A 19720126 - UNILEVER LTD [US]
- GB 1398421 A 19750618 - UNILEVER LTD
- GB 1398422 A 19750618 - UNILEVER LTD
- THE JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY, vol. 52, 1975, pages 323 - 329
- PERRY AND BERCH: "Surface Active Agents and Detergents", vol. I AND II, SCHWARTZ
- "Application contains still more references"

Citation (search report)

- [A] GB 2228945 A 19900912 - UNILEVER PLC [GB]
- [A] EP 0368341 A2 19900516 - KAO CORP [JP]
- [DA] WO 9106303 A1 19910516 - UNIV CASE WESTERN RESERVE [US], et al
- [DA] EP 0576294 A2 19931229 - SEIKAGAKU KOGYO CO LTD [JP]

Cited by

US5965507A; US7319112B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**EP 0747469 A1 19961211**; AR 002399 A1 19980311; BR 9609370 A 19990629; CN 1195370 A 19981007; JP H11507692 A 19990706;  
MX 9709888 A 19980329; WO 9641861 A1 19961227

DOCDB simple family (application)

**EP 95303937 A 19950608**; AR 10304796 A 19960706; BR 9609370 A 19960528; CN 96194615 A 19960528; JP 50308197 A 19960528;  
MX 9709888 A 19960528; US 9607820 W 19960528