

Title (en)

PROTEOLYTIC PERHYDROLYSIS SYSTEM AND METHOD OF USE FOR BLEACHING

Publication

**EP 0359087 A3 19911023 (EN)**

Application

**EP 89116326 A 19890905**

Priority

US 24333188 A 19880912

Abstract (en)

[origin: EP0359087A2] A perhydrolysis system or activated oxidant system for in situ generation of peracid in aqueous solutions is disclosed, including: (a) a protease enzyme; (b) an ester substrate having the structure R min (Z) @ (CH2)- @-O-R, wherein R = C1-11-alkyl, R min = C1-10-alkyl or H, Z = O or a polyalkoxy residue of the formula (CH2CH2O)m or <CHEM> wherein m = 0-10, r = 0 or 1; R and R min optionally having OH-substituents pendant on or terminating the hydrocarbonyl chains, and (c) a source of peroxygen capable of reacting with the protease (a) and the ester substrate (b) to result in proteolytic production of peracid.

IPC 1-7

**C11D 3/386**; **C11D 3/39**

IPC 8 full level

**C11D 3/386** (2006.01); **C11D 3/39** (2006.01); **C11D 7/42** (2006.01); **C11D 7/54** (2006.01)

CPC (source: EP)

**C11D 3/386** (2013.01); **C11D 3/391** (2013.01)

Citation (search report)

- [YD] EP 0253487 A2 19880120 - CLOROX CO [US]
- [YD] US 3974082 A 19760810 - WEYN HENDRIK FRANS
- [Y] FR 2116046 A5 19720707 - PROCTER GAMBLE EUROP
- [A] US 4511490 A 19850416 - STANISLOWSKI ANNA G [US], et al

Cited by

US5576470A; US5240743A; US5364554A; US5431843A; US5486212A; EP0447553A4; US5932532A; US5338474A; EP2292743A3; EP2295554A3; CN103333870A; EP2664670A1; US6432661B1; WO2005056782A3; US8772007B2; US9282746B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

**EP 0359087 A2 19900321**; **EP 0359087 A3 19911023**; AU 2218492 A 19930107; AU 3672989 A 19900315; JP 2729676 B2 19980318; JP H02113097 A 19900425

DOCDB simple family (application)

**EP 89116326 A 19890905**; AU 2218492 A 19920904; AU 3672989 A 19890621; JP 22945389 A 19890906