

Title (en)

QUATERNARY AMMONIUM COMPOUNDS, THEIR PREPARATION AND THEIR USE AS FABRIC SOFTENER

Publication

EP 0022562 B1 19850619 (DE)

Application

EP 80103954 A 19800710

Priority

DE 2928603 A 19790714

Abstract (en)

[origin: US4339391A] Quaternary ammonium compounds of the formula 1 <IMAGE> (1) in which R is C8-C30-alkyl or alkenyl; R1 is alkyl, 2-hydroxyalkyl or alkenyl each having from 8 to 30 carbon atoms; R2 is C1-C4-alkyl or benzyl; A is a group of the formulae <IMAGE> B is A or C1-C4-alkylene, X and Y are hydrogen or methyl with the proviso that X and Y are not simultaneously methyl; m is 1 or 2; n is a number of from 1 to 20; and A(-) is an anion; a process for the preparation thereof, and their use as fabric softeners.

IPC 1-7

C07C 93/18; **C07C 93/04**; **C11D 1/62**; **C11D 3/30**

IPC 8 full level

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CPC (source: EP US)

C11D 1/62 (2013.01 - EP US); **C11D 3/0015** (2013.01 - EP US)

Citation (examination)

- DE 2728841 A1 19780105 - UNILEVER NV
- EP 0002857 A1 19790711 - PROCTER & GAMBLE [US]
- FR 2054337 A5 19710416 - BASF AG
- GB 1287199 A 19720831 - BASF AG [DE]
- GB 1296351 A 19721115
- GB 1296352 A 19721115
- GB 1374419 A 19741120 - UNILEVER LTD
- GB 1380705 A 19750115 - KAO CORP
- JP S4740041 A
- US 2712025 A 19550628 - REHBERG CHESSIE E, et al
- US 2189397 A 19400206 - HARRIS BENJAMIN R
- US 2359043 A 19440926 - JAKOB LINK, et al
- US 2775604 A 19561225 - DAVID ZECH JOHN
- US 3272712 A 19660913 - GREGOIRE KALOPISSIS, et al
- US 3342840 A 19670919 - IGOR SOBOLEV
- US 3661784 A 19720509 - BELLOS THOMAS J
- US 3872138 A 19750318 - OGATA YUZURU [JP]
- US 4069309 A 19780117 - CIAUDELLI JOSEPH P, et al
- US 4128485 A 19781205 - BAUMAN ROBERT A, et al
- US 4137180 A 19790130 - NAIK APPAYA R, et al

Cited by

EP0069948A1; US4701268A; EP0239910A3; EP0299176A3; EP0293955A3; EP0252441A3; EP0309052A3; EP0284036A3; EP0293953A3; WO2013103618A3

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