

Title (en)
Antimicrobial hard surface cleaner

Title (de)
Antimikrobieller Reiniger für harte Oberflächen

Title (fr)
Produit de nettoyage antimicrobien pour surface dure

Publication
EP 0691397 B1 20041006 (EN)

Application
EP 95304637 A 19950703

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US 27168194 A 19940707

Abstract (en)
[origin: EP0691397A2] The invention provides an aqueous, antimicrobial hard surface cleaner with significantly improved residue removal and substantially reduced filming/streaking, said cleaner comprising: (a) an effective amount of a solvent selected from C1-6 alkanol, C3-24 alkylene glycol ether, and mixtures thereof; (b) an effective amount of a surfactant selected from amphoteric, nonionic surfactants, and mixtures thereof; (c) an effective amount of a quaternary ammonium surfactant; (d) an effective amount of a builder; and (d) the remainder as substantially all water.

IPC 1-7
C11D 3/00; **C11D 3/20**; **C11D 1/835**; **C11D 1/94**; **C11D 3/43**

IPC 8 full level
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Citation (examination)
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Cited by
US6187737B1; US8172953B2; US6017869A; US6159924A; US5929007A; US5929016A; CN1308426C; EP0826767A1; US5916864A; GB2319180A; US5908854A; GB2319180B; GB2320927A; US6030936A; GB2320927B; US6090771A; EP0937125A4; AU2003281521B2; ES2161169A1; AU726452B2; CN107835852A; EP3322790A4; EP4219671A3; US7741263B2; US10647948B2; WO9824314A1; WO9744427A1; WO0005330A1; WO0226268A3; WO2022106413A1; US6750190B2; US6933267B2; US10975333B2; US7576047B2; US7799751B2; US8389463B2; EP3418361A1; KR100493999B1; US6673761B2; US6825158B2; US8216994B2; WO0248299A1; WO9817763A1; US6723692B2; EP3418368A1; WO2018237129A1; US8071520B2; EP3417709A1; WO2018237126A1; US10696930B2; US11834624B2; WO2004009754A1; WO03050229A1; WO9855578A1

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