

Title (en)
PROCESS FOR THE SYNTHESIS OF ISOCYANATE-FREE OMEGA-HYDROXY-URETHANES, ALPHA-OMEGA-DIURETHANES AND OLIGO (POLY)URETHANES

Title (de)
VERFAHREN ZUR HERSTELLUNG VON ISOCYANATFREIEN OMEGA-HYDROXYURETHANEN, ALPHA-OMEGA-DIURETHANEN UND OLIGO(POLY)URETHANEN

Title (fr)
PROCÉDÉ DE SYNTHÈSE D'OMÉGA-HYDROXY-URÉTHANES, D'ALPHA-OMÉGA-DIURÉTHANES ET D'OLIGO (POLY)URÉTHANES EXEMPTS D'ISOCYANATE

Publication
EP 4153649 A1 20230329 (EN)

Application
EP 21730108 A 20210519

Priority
• IT 202000011626 A 20200519
• EP 2021063249 W 20210519

Abstract (en)
[origin: WO2021233976A1] The synthesis of omega-hydroxyalkyl-urethanes, and of alfa-omega-diurethanes is reported which includes the reaction of diols with urea in presence of catalysts based on Ce at temperatures between 125 and 170 °C over 4-8 h reaction time. A process for the production of oligomers of omega-hydroxyalkyl-urethanes is also reported based on the reaction of urea with diols in presence of Ce or Zr catalysts or Ce mixed oxides at 125-170 °C over 4-20 h.

IPC 8 full level
C08G 18/22 (2006.01); **C07C 269/00** (2006.01); **C08G 71/04** (2006.01)

CPC (source: EP)
C07C 269/00 (2013.01); **C08G 18/222** (2013.01); **C08G 71/04** (2013.01)

Citation (search report)
See references of WO 2021233976A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2021233976 A1 20211125; EP 4153649 A1 20230329; IT 202000011626 A1 20211119

DOCDB simple family (application)
EP 2021063249 W 20210519; EP 21730108 A 20210519; IT 202000011626 A 20200519