

Title (en)
METHOD FOR REDUCING AROMATIC (DI)AMINES IN POLYURETHANE FOAMS

Title (de)
VERFAHREN ZUR REDUKTION VON AROMATISCHEN (DI-)AMINEN IN POLYURETHANSCHAUMSTOFFEN

Title (fr)
PROCÉDÉ DE RÉDUCTION DE (DI)AMINES AROMATIQUES DANS DES MOUSSES DE POLYURÉTHANE

Publication
EP 4314104 A1 20240207 (DE)

Application
EP 22712003 A 20220317

Priority
• EP 21164326 A 20210323
• EP 2022057038 W 20220317

Abstract (en)
[origin: WO2022200176A1] The present invention relates to a method for producing polyurethane foams by reacting component A containing A1 an isocyanate-reactive component, A2 blowing agent containing water, A3 optionally auxiliary agent and additive, A4 a compound having the formula $P[-O-C(O)-CH_2-C(X)-R_1]_n$ (I), wherein P stands for a polyether polyol having an OH functionality of 2 to 8 and a number-average molecular weight of 200 to 4000 g/mol, measured in accordance with DIN 55672-1 from August 2007, X stands for =O or =N-R2, R1 and R2 stand, independently of each other, for a substituted or unsubstituted C1 to C8 alkyl group or a substituted or unsubstituted aryl group and n stands for the number of OH groups of P which are replaced by the group -O-C(O)-CH2-C(X)-R1 and is at least 1, with component B, an isocyanate component containing toluene diisocyanate, diphenylmethane diisocyanate, polyphenyl polymethylene polyisocyanate or mixtures of said compounds, at an isocyanate index of 100 or less. The invention also relates to polyurethane foams according to the method, to the use of the polyurethane foams and to the use of the component A4.

IPC 8 full level
C08G 18/28 (2006.01); **C08G 18/16** (2006.01); **C08G 18/18** (2006.01); **C08G 18/20** (2006.01); **C08G 18/32** (2006.01); **C08G 18/40** (2006.01); **C08G 18/48** (2006.01); **C08G 18/63** (2006.01); **C08G 18/66** (2006.01); **C08G 18/76** (2006.01); **C08J 9/00** (2006.01); **C08J 9/08** (2006.01)

CPC (source: EP)
C08G 18/161 (2013.01); **C08G 18/18** (2013.01); **C08G 18/2018** (2013.01); **C08G 18/2027** (2013.01); **C08G 18/284** (2013.01); **C08G 18/2875** (2013.01); **C08G 18/3206** (2013.01); **C08G 18/4072** (2013.01); **C08G 18/409** (2013.01); **C08G 18/4812** (2013.01); **C08G 18/4825** (2013.01); **C08G 18/485** (2013.01); **C08G 18/632** (2013.01); **C08G 18/6677** (2013.01); **C08G 18/7607** (2013.01); **C08G 18/7621** (2013.01); **C08G 18/7664** (2013.01); **C08G 2110/0008** (2021.01); **C08G 2110/0016** (2021.01); **C08G 2110/005** (2021.01); **C08G 2110/0058** (2021.01); **C08G 2110/0083** (2021.01)

Citation (search report)
See references of WO 2022200176A1

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 2022200176 A1 20220929; EP 4314104 A1 20240207

DOCDB simple family (application)
EP 2022057038 W 20220317; EP 22712003 A 20220317