

Title (en)

APPARATUS AND PROCESS FOR DISPERSING ISOCYANATE TERMINATED POLYURETHANE PREPOLYMERS

Title (de)

VORRICHTUNG SOWIE VERFAHREN ZUR DISPERGIERUNG VON ISOCYANATENDGRUPPEN ENTHALTENDEN POLYURETHANPREPOLYMEREN

Title (fr)

EQUIPEMENT ET PROCEDE DE DISPERSION DE PREPOLYMERES DE POLYURETHANNE SE TERMINANT PAR UN ISOCYANATE

Publication

EP 0792303 A1 19970903 (EN)

Application

EP 96931499 A 19960911

Priority

- US 9614445 W 19960911
- US 52893695 A 19950915
- US 68394196 A 19960718

Abstract (en)

[origin: WO9710273A1] An apparatus and process for the preparation of water-based polyurethane-urea polymers wherein dynamic mixers, which have a pitched blade turbine within a draft tube to generate axial flow, are used to disperse isocyanate-terminated polyurethane prepolymers in water. The mixers are configured to provide an average residence time of at least about 10 seconds, an average energy per unit volume input less than about 0.60 watts per cubic centimeter and an average of at least about 5 passes through the mixing zone.

IPC 1-7

C08G 18/08; **C08G 18/10**; **B01F 3/08**

IPC 8 full level

C08J 3/03 (2006.01); **B01F 3/08** (2006.01); **C08G 18/00** (2006.01); **C08G 18/08** (2006.01); **C08G 18/10** (2006.01); **C08J 3/20** (2006.01)

CPC (source: EP KR)

B01F 23/40 (2022.01 - KR); **C08G 18/08** (2013.01 - KR); **C08G 18/0866** (2013.01 - EP); **C08G 18/10** (2013.01 - EP KR)

Citation (search report)

See references of WO 9710273A1

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9710273 A1 19970320; AU 688695 B2 19980312; AU 7016496 A 19970401; BR 9606647 A 19970930; CA 2203880 A1 19970320; CN 1165526 A 19971119; EA 199700051 A1 19971230; EP 0792303 A1 19970903; JP H10506433 A 19980623; KR 970707195 A 19971201; MX 9703541 A 19980228; NZ 318635 A 19990429

DOCDB simple family (application)

US 9614445 W 19960911; AU 7016496 A 19960911; BR 9606647 A 19960911; CA 2203880 A 19960911; CN 96191055 A 19960911; EA 199700051 A 19970515; EP 96931499 A 19960911; JP 51202997 A 19960911; KR 19970703272 A 19970515; MX 9703541 A 19960911; NZ 31863596 A 19960911