

Title (en)
PREPARATION OF MICROCELLULAR POLYURETHANE ELASTOMERS.

Title (de)
HERSTELLUNG MIKROZELLULARER POLYURETHANELASTOMERE.

Title (fr)
PREPARATION D'ELASTOMERES DE POLYURETHANE MICROCELLULAIRES.

Publication
EP 0175773 A4 19860904 (EN)

Application
EP 85901865 A 19850329

Priority
US 59457184 A 19840329

Abstract (en)
[origin: WO8504410A1] Improved integral skin microcellular polyether polyurethane elastomer products, e.g., shoe soles, which are characterized by outstanding low temperature dynamic flex and green strength at demold, at specific gravities as low as about 0.4 gm/cc. These elastomer products are desirably prepared from a two-component system, e.g., the reaction of Package A containing improved normally liquid quasi-prepolymers, with Package B comprising a compatible liquid mixture containing polymer/poly(oxyethyleneoxypropylene)polyol, difunctional chain extender, halogenated blowing agent and optionally other ingredients. The said liquid quasi-prepolymers are derived from the reaction of (1) a mixture of normally solid diphenylmethane diisocyanate, carbodiimide and/or uretone imine and (2) poly(oxyethyleneoxypropylene)polyols.

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C08G 18/14

IPC 8 full level
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CPC (source: EP)
C08G 18/10 (2013.01); **C08G 18/4072** (2013.01); **C08G 18/4841** (2013.01); **C08G 18/6564** (2013.01); **C08G 18/797** (2013.01); **C08J 9/14** (2013.01); **C08G 2110/0008** (2021.01); **C08G 2110/0033** (2021.01); **C08G 2110/0066** (2021.01); **C08G 2410/00** (2013.01); **C08J 2375/04** (2013.01)

C-Set (source: EP)
1. **C08G 18/10 + C08G 18/65**
2. **C08G 18/10 + C08G 18/6666**
3. **C08G 18/10 + C08G 18/63**

Citation (search report)
• [X] EP 0075130 A2 19830330 - UPJOHN CO [US]
• [Y] GB 2005284 A 19790419 - UNION CARBIDE CORP
• [Y] US 4239857 A 19801216 - HARPER BILL D [US]
• [Y] US 4314038 A 19820202 - MARKOV'S ROBERT A
• [Y] FR 2299353 A1 19760827 - BAYER AG [DE]
• See references of WO 8504410A1

Cited by
US8221895B2; US8460767B2

Designated contracting state (EPC)
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