

Title (en)  
POLYURETHANE ROLLER AND METHOD FOR THE PRODUCTION THEREOF

Title (de)  
PU-WALZE UND VERFAHREN ZU IHRER HERSTELLUNG

Title (fr)  
CYLINDRE EN POLYURÉTHANE ET SON PROCÉDÉ DE FABRICATION

Publication  
**EP 2190896 A1 20100602 (DE)**

Application  
**EP 08786453 A 20080725**

Priority  
• EP 2008059792 W 20080725  
• DE 102007042781 A 20070907

Abstract (en)  
[origin: WO2009033874A1] The invention relates to a method for producing a roller shell or roller covering (1) of a roller from a PPDI-based polyurethane. To avoid stress cracks, the intention is to overcome the inadequacy in green strength as quickly as possible by the hardener that is added to the polyurethane bringing the pot time down to 5 to 60 s. The invention also relates to a PPDI polyurethane for producing a roller shell or roller covering (1) of a roller formed by mixing a PPDI prepolymer with a hardener, in particular for carrying out the method, wherein it is essential that 60 to 99% by weight of the hardener is 1,4-butane diol, at most 40% by weight is diamine and at most 1% by weight is a catalyst.

IPC 8 full level  
**C08G 18/10** (2006.01); **C08G 18/76** (2006.01); **D21G 1/02** (2006.01)

CPC (source: EP US)  
**C08G 18/10** (2013.01 - EP US); **C08G 18/7614** (2013.01 - EP US); **C09D 175/04** (2013.01 - EP US); **D21G 1/0233** (2013.01 - EP US)

C-Set (source: EP US)  
1. **C08G 18/10 + C08G 18/3206**  
2. **C08G 18/10 + C08G 18/3225**

Citation (search report)  
See references of WO 2009033874A1

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

Designated extension state (EPC)  
AL BA MK RS

DOCDB simple family (publication)  
**DE 102007042781 A1 20090312**; CN 101796092 A 20100804; CN 101796092 B 20131030; EP 2190896 A1 20100602;  
US 2010190624 A1 20100729; WO 2009033874 A1 20090319

DOCDB simple family (application)  
**DE 102007042781 A 20070907**; CN 200880106141 A 20080725; EP 08786453 A 20080725; EP 2008059792 W 20080725;  
US 71814010 A 20100305