

Title (en)  
Multilayer bituminous-polymeric material and method for producing same

Title (de)  
Mehrschichtiges, bituminöses und polymeres Material und Verfahren zu seiner Herstellung

Title (fr)  
Matériaux multicouches bitumineux et polymériques et sa méthode de fabrication

Publication  
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Application  
**EP 12170890 A 20120605**

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Abstract (en)  
The invention relates to a multilayer bituminous-polymeric material comprising a base, an upper layer and a lower layer, which have different operational properties, as well as to a method for producing the said material. The invention may be used for the production of a roll roofing material exhibiting water-proofing and fire-retardant properties. The technical effect of the claimed invention in respect of the method is development of a method (production process) for producing a multilayer bituminous-polymeric material which upper and lower layers differ from each other by their compositions and properties, the said method simplifying the process of production of the finished product and improving productivity of equipment.

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Citation (applicant)  
• RU 2117578 C1 19980820 - INST SINT POLIMERNYKH MATERIAL, et al  
• SU 697540 A1 19791115 - VNI PK I POLIMERNYKH STR MATER [SU]  
• EP 0634515 A1 19950118 - BOERNER GEORG CHEM WERK [DE]

Citation (search report)  
• [I] US 2005148250 A1 20050707 - O'CONNOR TERENCE J [CA], et al  
• [I] US 2008248241 A1 20081009 - KALKANOGLU HUSNU M [US], et al  
• [A] US 2005250399 A1 20051110 - KUHN WILLIAM P [US], et al  
• [A] US 7776417 B2 20100817 - MOHSEEN SHAIK [US], et al

Cited by  
CN110315777A; AU2014209366B2; JP2017141666A; RU2655317C2; CN104937165A; JP2016511332A; US2017023169A1; US10648610B2; US10138375B2; US9523203B2; US11168479B2; WO2014116815A1; US9242432B1; US9447581B2; US9725907B2; WO2014116791A1; US10273693B2; US10941573B2; US9441140B2; US10011092B2; US10774535B2; US11065841B2; US11230085B2

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