

Title (en)  
Roofing membrane

Title (de)  
Dachbahn

Title (fr)  
Membrane de toiture

Publication  
**EP 2299021 A3 20130529 (DE)**

Application  
**EP 10176931 A 20100915**

Priority  
• DE 102009044008 A 20090915  
• DE 102009044371 A 20091030

Abstract (en)  
[origin: EP2299021A2] The web has an intermediate layer and/or a reinforcement part made of non-woven fabrics (24, 26) i.e. glass mats. The non-woven fabrics include reinforcing threads (30, 32, 40, 42) in form of polyester threads and mechanical reinforcement units. The reinforcing threads are provided in a boundary region and within a center area for mechanical adjustment of roofing sheets (10, 12). The non-woven fabric is a glass fiber fleece having surface weight between 50 and 70 gram per meter square.

IPC 8 full level  
**E04D 5/10** (2006.01); **E04D 5/12** (2006.01); **E04D 5/14** (2006.01)

CPC (source: EP)  
**E04D 5/12** (2013.01); **E04D 5/142** (2013.01); **E04D 5/145** (2013.01)

Citation (search report)  
• [X1] EP 0905303 A2 19990331 - ICOPAL GMBH [DE]  
• [X1] WO 0153625 A1 20010726 - KLOEBER GMBH & CO KG [DE]  
• [XDI] DE 102005039543 A1 20070301 - VEDAG GMBH [DE]  
• [X1] DE 29911125 U1 19991230 - ICOPAL GMBH [DE]

Cited by  
CN111479964A; WO2019120731A1; EP3378623A1

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 SE SI SK SM TR

Designated extension state (EPC)  
BA ME RS

DOCDB simple family (publication)  
**EP 2299021 A2 20110323; EP 2299021 A3 20130529; EP 2299021 B1 20161221**; DE 102009044371 A1 20110324

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