

Title (en)  
METHOD OF APPLYING SILANE COATING TO METAL COMPOSITION

Title (de)  
VERFAHREN ZUR APPLIZIERUNG EINER SILANBESCHICHTUNG AUF EINER METALLZUSAMMENSETZUNG

Title (fr)  
PROCEDE D'APPLICATION D'UN REVETEMENT DE SILANE SUR UNE COMPOSITION METALLIQUE

Publication  
**EP 1943314 B1 20150819 (EN)**

Application  
**EP 06803035 A 20060906**

Priority  

- US 2006034705 W 20060906
- US 71547405 P 20050909
- US 36623506 A 20060302

Abstract (en)  
[origin: CN101273102A] Organofunctional silanes are applied to metal surfaces using an oil bath. Metal is immersed in an oil bath containing approximately 2 % silane. In a preferred embodiment, the metal is a tire cord (12). The silane can either be hydrolyzed or unhydrolyzed. The hydrolyzed silanes can be in combination with a water dispersible resin. When the tire cord (12) is coated with silane using the present method, it allows a tire to be formulated with lower sulfur levels and without cobalt.

IPC 8 full level  
**B05D 1/36** (2006.01); **C08K 5/544** (2006.01); **C08K 5/548** (2006.01); **C09D 4/00** (2006.01); **C09D 183/08** (2006.01); **C09J 5/02** (2006.01); **C23C 22/02** (2006.01)

CPC (source: EP)  
**G07F 17/32** (2013.01); **G07F 17/3209** (2013.01); **C23C 2222/20** (2013.01)

Cited by  
CN115537795A; US11279111B2; WO2019061378A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
CN 101273102 A 20080924; CN 101273102 B 20120201; EP 1943314 A2 20080716; EP 1943314 B1 20150819; JP 2009507628 A 20090226; JP 5468259 B2 20140409

DOCDB simple family (application)  
CN 200680032945 A 20060906; EP 06803035 A 20060906; JP 2008530166 A 20060906