

Title (en)  
METHOD FOR THE PRODUCTION OF POLYAMIDE NANOCOMPOSITES, CORRESPONDING PACKAGING MATERIALS AND MOULDED BODIES

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON POLYAMID-NANOCOMPOSITES, ENTSPRECHENDEN VERPACKUNGSMITTELN UND FORMKORPERN

Title (fr)  
PROCEDE DE PRODUCTION DE NANOCOMPOSITES A BASE DE POLYAMIDES, DE MOYENS D'EMBALLAGE CORRESPONDANTS ET DE CORPS MOLDES

Publication  
**EP 1470179 A1 20041027 (DE)**

Application  
**EP 03700793 A 20030130**

Priority

- CH 0300077 W 20030130
- CH 0200052 W 20020130

Abstract (en)  
[origin: WO03064503A1] The invention relates to a method for the production of polyamide nanocomposites made from base polymers comprising aromatic components and organically-modified phyllosilicates in a double-screw extruder with a front-feeder and a side-feeder. Said method is characterised in that a portion (A) from 8 to 15 wt. % of a granulate of the base polymer is introduced in the front-feeder of the double-screw extruder and the main portion (B) of said granulate of the base polymer is introduced by means of the side feeder of the double-screw extruder and that 2 to 8 wt. % of the modified phyllosilicate is introduced into the melt of the granulate portion (A) of the base polymer, whereby the wt. % proportions relate to the finished polyamide nanocomposite. According to the invention, packaging materials with high UV absorption and improved gas and aroma barrier effect can be produced by said method. Furthermore, the corresponding packaging materials, the use thereof and moulded bodies produced by means of said method are disclosed.

IPC 1-7  
**C08J 3/20**; **C08J 3/22**; **C08K 3/34**; **C08K 7/00**; **C08K 9/04**; **C08L 77/00**

IPC 8 full level  
**C08J 3/22** (2006.01); **C08K 3/34** (2006.01); **C08K 7/00** (2006.01)

CPC (source: EP KR)  
**B82B 3/00** (2013.01 - KR); **C08G 69/00** (2013.01 - KR); **C08G 69/48** (2013.01 - KR); **C08J 3/20** (2013.01 - KR); **C08J 3/226** (2013.01 - EP); **C08K 3/34** (2013.01 - EP); **C08K 7/00** (2013.01 - EP); **C08J 2377/00** (2013.01 - EP); **C08J 2477/00** (2013.01 - EP)

Citation (search report)  
See references of WO 03064503A1

DOCDB simple family (publication)  
**WO 03064503 A1 20030807**; CA 2474604 A1 20030807; CA 2474604 C 20110426; CN 1300224 C 20070214; CN 1643039 A 20050720; EP 1470179 A1 20041027; KR 100909924 B1 20090729; KR 20040089129 A 20041020

DOCDB simple family (application)  
**CH 0300077 W 20030130**; CA 2474604 A 20030130; CN 03806950 A 20030130; EP 03700793 A 20030130; KR 20047011764 A 20030130