

Title (en)

PROCESS FOR THE PRODUCTION OF POLYESTER NANOCOMPOSITES AND SHAPED ARTICLES MADE THEREOF

Title (de)

VERFAHREN ZUR HERSTELLUNG VON POLYESTERNANOKOMPOSITEN UND FORMARTIKELN DARAUS

Title (fr)

PROCÉDÉ POUR LA PRODUCTION DE NANOCOMPOSITES DE POLYESTER ET ARTICLES FAÇONNÉS CONSTITUÉS DE CEUX-CI

Publication

EP 2449003 A1 20120509 (EN)

Application

EP 10729037 A 20100629

Priority

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Abstract (en)

[origin: WO2011008511A1] Polyester nanocomposites with improved mechanical properties are prepared by melt-compounding a mixture of: fibrous clay, sodium salt, optionally at least one linear polyester oligomer, and at least one polyester polymer; and, optionally, subjecting the nanocomposite composition to solid state polymerization to increase polyester molecular weight. The polyester nanocomposites can also be prepared from a melt-compounded masterbatch, containing a greater concentration of fibrous clay than is desired in the final resin composition.

IPC 8 full level

C08J 5/00 (2006.01); **C08K 3/34** (2006.01)

CPC (source: EP KR)

B82Y 30/00 (2013.01 - EP); **C08J 5/00** (2013.01 - KR); **C08J 5/005** (2013.01 - EP); **C08K 3/34** (2013.01 - KR); **C08K 7/02** (2013.01 - KR);
C08L 67/00 (2013.01 - KR); **C08L 67/02** (2013.01 - EP); **C08L 67/04** (2013.01 - EP); **C08J 2367/04** (2013.01 - EP); **C08K 7/10** (2013.01 - EP)

Citation (search report)

See references of WO 2011008511A1

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