

Title (en)  
NUCLEATION OF POLYAMIDES IN THE PRESENCE OF HYPOPHOSPHITE

Title (de)  
NUKLEIERUNG VON POLYAMIDEN IN GEGENWART VON HYPOPHOSPHIT

Title (fr)  
NUCLEATION DE POLYAMIDES EN PRESENCE D'HYPOPHOSPHITE

Publication  
**EP 1084182 A1 20010321 (EN)**

Application  
**EP 99925859 A 19990526**

Priority  
• US 9911610 W 19990526  
• US 8723298 P 19980529

Abstract (en)  
[origin: WO9961522A1] The present invention provides polyamide compositions comprising a polyamide, nylon 2,2, and a phosphorous-containing whitening agent having Formula (I), wherein R is hydrogen, an alkyl group with 1 to 6 carbons, a cycloalkyl group with 5 to 6 carbons, or a phenyl or methylphenyl aromatic group, and M is hydrogen or a metal. In a preferred embodiment, the polyamide is nylon 6,6 (polyhexamethylene adipamide) and the phosphorous-containing whitening agent is a hypophosphorous acid or a metal hypophosphite. Sodium hypophosphite is especially preferred. The polyamide compositions of the present invention have improved molding cycle times, and are tough, white and color-stable.

IPC 1-7  
**C08K 3/32**; **C08K 5/51**; **C08L 77/00**

IPC 8 full level  
**C08G 69/00** (2006.01); **C08K 3/32** (2006.01); **C08K 5/00** (2006.01); **C08K 5/51** (2006.01); **C08K 5/5313** (2006.01); **C08L 77/00** (2006.01); **C08L 77/06** (2006.01)

CPC (source: EP KR)  
**C08K 3/32** (2013.01 - EP KR); **C08K 5/0008** (2013.01 - EP KR); **C08K 5/51** (2013.01 - EP KR); **C08K 5/5313** (2013.01 - EP KR); **C08L 77/00** (2013.01 - EP); **C08L 77/06** (2013.01 - EP KR); **C08L 2205/02** (2013.01 - KR)

Citation (search report)  
See references of WO 9961522A1

Cited by  
EP2698346A1; EP2698345A1; WO2011092275A1; DE102010006083A1; WO2011092281A1; DE102010006077A1; US9577244B2

Designated contracting state (EPC)  
DE ES FR GB IT NL

DOCDB simple family (publication)  
**WO 9961522 A1 19991202**; AU 4206199 A 19991213; BR 9910798 A 20010213; CA 2333404 A1 19991202; CN 1311808 A 20010905; EP 1084182 A1 20010321; JP 2002516371 A 20020604; KR 20010071312 A 20010728; TW 546350 B 20030811

DOCDB simple family (application)  
**US 9911610 W 19990526**; AU 4206199 A 19990526; BR 9910798 A 19990526; CA 2333404 A 19990526; CN 99809196 A 19990526; EP 99925859 A 19990526; JP 2000550918 A 19990526; KR 20007013252 A 20001124; TW 88108914 A 19990726