

Title (en)
PROCESS FOR MAKING AND USING BISARYL DIPHOSPHATES

Title (de)
VERFAHREN ZUR HERSTELLUNG UND VERWENDUNG VON BISARYLDIPHOSPHATEN

Title (fr)
PROCEDE DE FABRICATION ET D'UTILISATION DE BISARYL-DIPHOSPHATES

Publication
EP 0971935 A4 20000419 (EN)

Application
EP 98906465 A 19980210

Priority
• US 9802968 W 19980210
• US 3873497 P 19970214

Abstract (en)
[origin: WO9835970A1] Flame retardancy is provided to polymer resins by adding to the resin a bisaryl diphosphate that has not been purified to remove catalyst or catalyst residue from the product. The bisaryl diphosphate may be prepared by a two-step process that starts with the semi-continuous addition of dry bisphenol A to a heated mixture of phosphorous oxychloride and MgCl₂, and concludes with the addition of dry phenol to the step one intermediate.

IPC 1-7
C07F 9/02; **C08K 5/52**

IPC 8 full level
C09K 21/14 (2006.01); **C07F 9/12** (2006.01); **C08K 5/521** (2006.01); **C08K 5/523** (2006.01); **C08L 101/00** (2006.01)

CPC (source: EP KR)
C07F 9/12 (2013.01 - EP); **C08G 83/00** (2013.01 - KR); **C08K 5/521** (2013.01 - KR); **C08K 5/523** (2013.01 - EP)

Citation (search report)
• [PA] WO 9747631 A1 19971218 - GREAT LAKES CHEMICAL CORP [US]
• [PX] EP 0795570 A1 19970917 - TOSHIBA CHEM CORP [JP]
• [A] WO 9516736 A1 19950622 - DOW CHEMICAL CO [US], et al
• See references of WO 9835970A1

Designated contracting state (EPC)
BE DE FR GB NL

DOCDB simple family (publication)
WO 9835970 A1 19980820; BR 9808644 A 20000523; CA 2281106 A1 19980820; CN 1252073 A 20000503; EP 0971935 A1 20000119; EP 0971935 A4 20000419; IL 131379 A0 20010128; JP 2001512510 A 20010821; KR 20000071089 A 20001125

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US 9802968 W 19980210; BR 9808644 A 19980210; CA 2281106 A 19980210; CN 98804140 A 19980210; EP 98906465 A 19980210; IL 13137998 A 19980210; JP 53598698 A 19980210; KR 19997007376 A 19990813