

Title (en)
NOVEL FLAME RETARDANT PLASTICIZERS

Title (de)
FLAMMHEMMENDE WEICHMACHER

Title (fr)
NOUVEAUX PLASTIFIANTS IGNIFUGES

Publication
EP 1012133 A2 20000628 (EN)

Application
EP 98930430 A 19980618

Priority
• US 9812871 W 19980618
• US 4990097 P 19970618

Abstract (en)
[origin: WO9857920A2] The present invention provides novel esters synthesized from organic alcohols and tetrahalophthalic anhydride or tetrahalophthalic acid, processes to make such esters, and novel uses of these esters. The invention provides three Groups of dialkyltetrahalophthalate compositions which exhibit surprisingly advantageous features, including excellent plasticizing functionality and low smoke generation. The esters may be symmetrical, in that both alcohols of the ester are the same, or they may be unsymmetrical with both alcohols of the derived phthalate ester different, or they may be mixtures of symmetrical and unsymmetrical esters. Inventive esters are useful as flame-retardant plasticizers in PVC or other polymeric systems.

IPC 1-7
C07C 69/76; **C08K 5/09**

IPC 8 full level
C07C 69/76 (2006.01); **C08K 5/00** (2006.01); **C08K 5/10** (2006.01)

CPC (source: EP KR)
C07C 69/76 (2013.01 - EP KR); **C08K 5/0016** (2013.01 - EP); **C08K 5/10** (2013.01 - EP)

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 9857920 A2 19981223; **WO 9857920 A3 19990318**; EP 1012133 A2 20000628; EP 1012133 A4 20000830; KR 20010013947 A 20010226

DOCDB simple family (application)
US 9812871 W 19980618; EP 98930430 A 19980618; KR 19997011972 A 19991217