

Title (en)
ETHYLENE POLYMER COMPOSITION FOR CABLE APPLICATIONS

Title (de)
ETHYLENPOLYMER-ZUSAMMENSETZUNG FÜR ELECTRISCHE KABEL

Title (fr)
COMPOSITION A BASE DE POLYMERES D'ETHYLENE POUR CABLES

Publication
EP 0892979 B1 20030521 (EN)

Application
EP 97917761 A 19970401

Priority

- US 9705297 W 19970401
- US 63132096 A 19960410

Abstract (en)
[origin: WO9738424A1] The present invention discloses a cable comprising a layer of a polyethylene composition characterized in that the polyethylene composition comprises: (A) from 5 percent to 95 percent by weight of the total composition of at least one first polymer which is an ethylene/ alpha -olefin interpolymer having: (i) a density from 0.865 g/cm³ to 0.95 g/cm³, (ii) a molecular weight distribution (Mw/Mn) from 1.8 to 3.5, (iii) a melt index (I2) from 0.001 g/10 min. to 10 g/10 min., and (iv) a CBDI greater than 50 percent, (B) from 5 percent to 95 percent by weight of the total composition of at least one second polymer which is a heterogeneously branched ethylene polymer or homogeneously branched ethylene homopolymer having a density from 0.9 g/cm³ to 0.965 g/cm³. The cable of the present invention has superior mechanical properties and processability relative to conventional cable using current polymers such as low density polyethylene (LDPE), linear low density polyethylene (LLDPE), and polyvinylchloride (PVC).

IPC 1-7
H01B 3/44

IPC 8 full level
C08F 2/06 (2006.01); **C08F 6/12** (2006.01); **C08L 23/08** (2006.01); **H01B 3/44** (2006.01); **H01B 9/02** (2006.01)

CPC (source: EP KR)
H01B 3/44 (2013.01 - KR); **H01B 3/441** (2013.01 - EP)

Cited by
KR20190037945A; US11697699B2; US7517927B2; US7005465B2; US7524894B2; WO2019066516A1; EP3252085A1; WO2017207483A1; US11015003B2; US11618795B2

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9738424 A1 19971016; AR 006572 A1 19990908; AT E241203 T1 20030615; AU 2600797 A 19971029; BR 9709117 A 19990803; CA 2248654 A1 19971016; CA 2248654 C 20040525; CN 1097825 C 20030101; CN 1215497 A 19990428; DE 69722197 D1 20030626; DE 69722197 T2 20031204; EP 0892979 A1 19990127; EP 0892979 B1 20030521; ES 2200173 T3 20040301; ID 18484 A 19980409; JP 2000508466 A 20000704; KR 20000005334 A 20000125; NO 984715 D0 19981009; NO 984715 L 19981009; TR 199802018 T2 19990118; TW 374934 B 19991121

DOCDB simple family (application)
US 9705297 W 19970401; AR P970101398 A 19970409; AT 97917761 T 19970401; AU 2600797 A 19970401; BR 9709117 A 19970401; CA 2248654 A 19970401; CN 97193722 A 19970401; DE 69722197 T 19970401; EP 97917761 A 19970401; ES 97917761 T 19970401; ID 971165 A 19970407; JP 53627597 A 19970401; KR 19980708053 A 19981009; NO 984715 A 19981009; TR 9802018 T 19970401; TW 86104543 A 19970409