

Title (en)

Method and apparatus for the manufacture of a multi-coloured yarn composed of differentially dyed continuous filament yarns

Title (de)

Verfahren und Vorrichtung zur Erzeugung eines mehrfarbigen Garnes aus unterschiedlich farbigen Teilfäden aus Endlosfilament

Title (fr)

Procédé et dispositif pour la production d'un fil multicolore à partir de fils continues, teints différenciellement

Publication

**EP 0784109 B1 20020904 (DE)**

Application

**EP 97810012 A 19970113**

Priority

CH 9396 A 19960112

Abstract (en)

[origin: EP0784109A2] To produce a multi-coloured yarn, using threads and filaments of different colours, the threads/filaments are gathered after they have been compacted, to be wound as a yarn. Also claimed is an apparatus with a common gathering /compaction stage (9) for all the threads/filaments (11.1, 11.2), a winder (10) for the assembled yarn (12) and a compacting unit (3) for each thread/filament, which is in before the gathering/compacting stage.

IPC 1-7

**D02J 1/08**; **D02G 1/20**; **D02G 1/16**; **D02G 1/12**

IPC 8 full level

**D02G 1/12** (2006.01); **D02G 1/16** (2006.01); **D02G 1/20** (2006.01); **D02J 1/08** (2006.01); **D02J 11/00** (2006.01)

CPC (source: EP US)

**D02G 1/12** (2013.01 - EP US); **D02G 1/122** (2013.01 - EP US); **D02G 1/16** (2013.01 - EP US); **D02G 1/161** (2013.01 - EP US); **D02G 1/165** (2013.01 - EP US); **D02G 1/20** (2013.01 - EP US); **D02G 3/346** (2013.01 - EP US); **D02J 1/08** (2013.01 - EP US)

Cited by

WO2012171590A1; WO2018130608A1; US6079086A; US6192667B1; US6253430B1; DE19929817B4; US6076345A; EP0930383A1; CN103154334A; EP1146151A3; CN110168155A; EP0848095A1; US5804115A; DE102009046200A1; DE10302079B4; EP0906975A1; EP1449945A3; US6814828B1; US7955194B2; US6378180B2; WO2004018751A1; WO2015124497A1; WO2012052203A1; US6442923B1; DE102014002318A1; US9309608B2; DE102017100487A1; US11479884B2; DE102017100488A1; WO2018130604A1; US11535955B2; EP2721203B1

Designated contracting state (EPC)

BE CH DE FR IT LI

DOCDB simple family (publication)

**EP 0784109 A2 19970716**; **EP 0784109 A3 19970723**; **EP 0784109 B1 20020904**; BR 9700044 A 19981110; CA 2194843 A1 19970713; CN 1078636 C 20020130; CN 1121517 C 20030917; CN 1160782 A 19971001; CN 1210911 A 19990317; DE 59706682 D1 20020425; DE 59708092 D1 20021010; EP 0874072 A1 19981028; EP 0874072 B1 20020320; US 6085395 A 20000711; US 6094790 A 20000801; US 6119320 A 20000919

DOCDB simple family (application)

**EP 97810012 A 19970113**; BR 9700044 A 19970110; CA 2194843 A 19970110; CN 97101011 A 19970110; CN 98108384 A 19980519; DE 59706682 T 19970113; DE 59708092 T 19970113; EP 98104464 A 19970113; US 12748598 A 19980731; US 16562798 A 19981001; US 78383197 A 19970113