

Title (en)

DEVICE AND METHOD FOR REALIZING BLENDING AND COLOR MIXING BASED ON TRIPLE-ROVING COUPLING DRAFTING AND TWISTING SYSTEM, AND COLORFUL YARN PREPARED VIA METHOD

Title (de)

VORRICHTUNG UND VERFAHREN ZUM VERMISCHEN UND FARBMISCHEN AUF DER BASIS EINES DREIFACHVORGARNKOPPLUNGS-, STRECK UND VERDRILLSYSTEMS UND DURCH DAS VERFAHREN HERGESTELLTES BUNTES GARN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR RÉALISER UN MÉLANGE ET UN MÉLANGE DE COULEURS SUR LA BASE D'UN SYSTÈME D'ÉTIRAGE ET DE RETORDAGE À COUPLAGE DE TROIS MÈCHES DISCONTINUES, ET FIL COLORÉ PRÉPARÉ PAR CE PROCÉDÉ

Publication

EP 3048192 A1 20160727 (EN)

Application

EP 14838140 A 20140804

Priority

- CN 201310369692 A 20130822
- CN 201410176434 A 20140429
- CN 2014000746 W 20140804

Abstract (en)

A device and method for realizing blending and color mixing based on a triple-roving coupling drafting and twisting system, the device comprising a drafting and twisting system consisting of a set of rear rollers and a set of front rollers; the set of rear rollers comprises a combination rear leather roller (4) and a combination rear roller (5); the set of front rollers comprises a front leather roller (6) and a front roller (7); and the set of rear rollers is a combination rear roller having three degrees of rotational freedom and formed by sequentially positioning three sections of rings (8, 9, 10) with the same outer diameter on the same spindle. Each part of a drafting mechanism having three degrees of freedom is independently controlled for on-demand configuration of the blending ratio of the roving of different components or different colors and the configuration of the distributed length of the roving on yarns.

IPC 8 full level

D01H 5/32 (2006.01); **D01H 5/22** (2006.01); **D01H 5/36** (2006.01); **D02G 3/22** (2006.01)

CPC (source: EP)

D01H 5/22 (2013.01); **D01H 5/36** (2013.01); **D02G 3/346** (2013.01)

Cited by

EP3321401A1; IT201600109272A1; EP3650591A1; IT201800010209A1; US11390968B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3048192 A1 20160727; **EP 3048192 A4 20170412**; CN 103924341 A 20140716; CN 103924341 B 20160608; JP 2016535177 A 20161110; WO 2015024356 A1 20150226

DOCDB simple family (application)

EP 14838140 A 20140804; CN 2014000746 W 20140804; CN 201410176434 A 20140429; JP 2016535306 A 20140804