

Title (en)

Method and device to prepare wound supports of a succession of different yarns and support obtained with said method and device

Title (de)

Verfahren und Vorrichtung zum Herstellen von Trägern aus aufeinanderfolgenden verschiedenen Garnen und der so erhaltene Träger

Title (fr)

Procédé et dispositif pour préparer des supports d'une succession de différents fils textiles et support obtenu par ce procédé et dispositif

Publication

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Application

EP 03104265 A 20031118

Priority

IT UD20020242 A 20021119

Abstract (en)

Method and device (10) to prepare a support (14) such as a cone, a spool or a bobbin for mixed yarns to be sent to subsequent treatments such as twisting, warping, weaving and knitting. The support (14) is formed by a succession of threads (16a-16f) different from each other in color, count, physical-mechanical characteristics, composition or nature. The device (10) comprises a plurality of feed cones (12a-12f) that feed the threads (16a-16f), a collection assembly (32) for the support (14), an electronic device (23) to calculate the meters wound on the support (14), a command and control unit which dialogs with the electronic device (23) and determines the moment for the change of thread (16a-16f) being fed to the support (14), a joining device (21) to join the end of one thread (16a-16f) entering and the end of one thread (16a-16f) exiting, and an introduction device (17) to feed the threads (16a-16f) that it feeds one at a time in sequence to the collection assembly (32). <IMAGE>

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Cited by

CN110592757A; CN113336026A; EP1764333A3; CN101962908A; CN108486718A; US2019084788A1; KR20190027920A; EP3569536A4; US10919727B2; IL266213B1; WO2009099398A1; WO2022012088A1; US9487887B1; WO2020225025A1

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