

Title (en)
A METHOD FOR PRINTING A RIBBON

Title (de)
VERFAHREN ZUM BEDRUCKEN EINES TEXTILEN BANDES

Title (fr)
PROCEDE D'IMPRESSION D'UN RUBAN

Publication
EP 4011625 B1 20230823 (EN)

Application
EP 21212399 A 20211203

Priority
IT 202000030731 A 20201214

Abstract (en)
[origin: EP4011625A1] A method for printing a ribbon, comprising the steps of:- feeding a ribbon (1) along a feeding path (X),- impregnating said ribbon (1) with a predetermined amount of acidic or alkaline solution thereby obtaining an impregnated ribbon (2),- feeding a first tape (4) and a second tape (5) consisting of a plastic material on which at least one dye layer (6, 6') comprising pigments of acidic and/or reactive pigments, or pigments of basic colors, is applied,- coupling the impregnated ribbon (2) to the first and second tapes (4, 5) consisting of a plastic material, defining a multi-layer belt (7),- making two continuous and parallel weld seams (A) at respective side edges (7') of the multi-layer belt (7),- advancing the multi-layer belt (7) along a vaporization path (V) where the multi-layer belt (7) is heated on both sides, so as to vaporize at least partially the predetermined amount of acidic or alkaline solution for activating the reaction of the dyes with the impregnated acidic or alkaline solution and obtaining a migration of the dyes from the dye layer (6, 6') towards the ribbon (1) forming a printed ribbon (8),- making two continuous cutting lines (B), parallel to the two continuous weld seams (A), so as to trim the side edges (7') of the multi-layer belt (7),- decoupling the multi-layer belt (7).

IPC 8 full level
B41F 16/02 (2006.01); **B41M 5/035** (2006.01); **D06B 11/00** (2006.01)

CPC (source: EP)
D06B 11/0076 (2013.01); **B41F 16/02** (2013.01); **D06B 1/02** (2013.01); **D06B 3/18** (2013.01); **D06B 5/08** (2013.01); **D06B 11/003** (2013.01)

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

DOCDB simple family (publication)
EP 4011625 A1 20220615; EP 4011625 B1 20230823

DOCDB simple family (application)
EP 21212399 A 20211203