

Title (en)

METHOD AND SYSTEM FOR COMPUTER-IMPLEMENTED TRACKING OF PRODUCTION HISTORY OF A CONTINUOUS WEB

Title (de)

VERFAHREN UND SYSTEM ZUR COMPUTERIMPLEMENTIERTEN VERFOLGUNG DES PRODUKTIONSVERLAUFS EINER KONTINUIERLICHEN BAHN

Title (fr)

PROCÉDÉ ET SYSTÈME DE SUIVI MIS EN OEUVRE PAR ORDINATEUR D'HISTORIQUE DE PRODUCTION D'UNE BANDE CONTINUE

Publication

EP 4310040 A1 20240124 (EN)

Application

EP 22185937 A 20220720

Priority

EP 22185937 A 20220720

Abstract (en)

The invention relates to a method for computer-implemented tracking of production history of a continuous web (5), which is processed in a production system (1), comprising at least one sub-system (10) applied to perform one or more specific operations. The web (5) is transported along a curved given path (P) through the production system (1) by winding/unwinding from/onto a coil (11, 23). The following steps are performed at each time point of one or more time points during the operation of the production system (1):a) obtaining measured data (MD) of the web (5) while being transported along the path (P), the measured data (MD) being current time-stamped measured data (MD) acquired by at least one of a sensor (31, 32, 33) or a measuring device installed at or in the vicinity of the production system (1) along the path (P), where a spatial position of each sensor (31, 32, 33) and measuring device with respect to the given path (P) is known;b) obtaining movement information (MI) of the web (5);c) determining production-relevant features (PRF) of the web (5) by processing the time-stamped measured data (MD) and the movement information (MI) of the web (5) by mapping the time-stamped measured data (MD) to physical points of regions of the web (5).

IPC 8 full level

B65H 26/02 (2006.01)

CPC (source: EP)

B65H 26/02 (2013.01); **B65H 2557/62** (2013.01); **B65H 2801/72** (2013.01)

Citation (search report)

- [X1] US 2002030704 A1 20020314 - KORNGOLD BRUNO ALEXANDER [NL], et al
- [A] DE 102009029082 A1 20110303 - VOITH PATENT GMBH [DE]
- [A] US 5628574 A 19970513 - CROWLEY H W [US]
- [A] US 2017307542 A1 20171026 - WATANABE KOICHIRO [JP], et al
- [A] EP 0730686 A1 19960911 - RETECH AG [CH]

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4310040 A1 20240124; WO 2024017680 A1 20240125

DOCDB simple family (application)

EP 22185937 A 20220720; EP 2023068965 W 20230710