

Title (en)

ROTATION PRINTING MACHINE WITH SYNCHRONISATION OF FOLDING DRIVE GROUP

Title (de)

ROTATIONS-DRUCKMASCHINE MIT SYNCHRONISATION DER FALZ-ANTRIEBSGRUPPE

Title (fr)

IMPRIMANTE ROTATIVE DOTÉE D'UNE SYNCHRONISATION DU GROUPE D'ENTRAÎNEMENT DU PLIAGE

Publication

EP 2243630 B1 20160914 (DE)

Application

EP 09158747 A 20090424

Priority

EP 09158747 A 20090424

Abstract (en)

[origin: EP2243630A1] The method involves operating multiple drives (R, M) in a printing machine outside a communication network i.e. sercos-ring, where the drives are provided with a sensor input. The drives are synchronized on a master axis of the communication network such that position sensor, motion sensor and acceleration sensor signals are generated based on synchronous reference value inputs of the master axis in the communication network. Sensor input or drives are utilized as set points. A sensor module (GE) is coupled with the master axis to generate a sensor signal (7) in the communication network. An independent claim is also included for a rotary printing machine comprising a folding unit.

IPC 8 full level

B41F 13/004 (2006.01); **B41F 33/00** (2006.01)

CPC (source: EP US)

B41F 13/0045 (2013.01 - EP US); **B41F 33/0009** (2013.01 - EP US)

Citation (examination)

- US 2006207450 A1 20060921 - BUECHNER DETLEF A [DE]
- US 2007175345 A1 20070802 - SCHAEFER KARL R [DE], et al

Citation (opposition)

Opponent : Koenig & Bauer AG

- WO 2004091912 A1 20041028 - KOENIG & BAUER AG [DE], et al
- "Kommission 609 025 00 Witham", BETRIEBSANLEITUNG - ROLLENWECHSLER KBA PASTOMAT RC, November 2003 (2003-11-01), pages FP, 3/10, 5/70, 10/6, XP055391738

Opponent : manroland web systems GmbH, Augsburg, DE

- US 2006207450 A1 20060921 - BUECHNER DETLEF A [DE]
- "Decentralized System for the Synchronization of Machine Axes", SYNAX
- "Rexroth IndraDrive, Antriebsgeräte, Steuerteile", REXROTH BOSCH GROUP, 2007, pages 1 - 178, XP055615589
- "Simotion, Ergänzende Sinamics, Systemkomponenten für Simotion Geratehandbuch", SIEMENS, pages 1 - 142, XP055615594
- "Technical Description Annex B", THE DAILY HERALD, 11 September 2000 (2000-09-11), pages FP - 21, XP055615626
- "M-Drive Controller (MDC) M-Drive Section Controller (MDS) M-Drive Section Controller mit Geberemulation (MDS-G)", BAUMULLER, 1 July 2002 (2002-07-01), pages 1 - 67, XP055615614

Cited by

AT512734A3; WO2013143715A3

Designated contracting state (EPC)

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 SE SI SK TR

DOCDB simple family (publication)

EP 2243630 A1 20101027; **EP 2243630 A8 20110511**; **EP 2243630 B1 20160914**; CA 2698979 A1 20101024; CA 2698979 C 20170523; US 2010269718 A1 20101028

DOCDB simple family (application)

EP 09158747 A 20090424; CA 2698979 A 20100406; US 75464910 A 20100406