

Title (en)
Drive for a printing press

Title (de)
Antrieb für eine Druckmaschine

Title (fr)
Entraînement pour une machine à imprimer

Publication
EP 0812683 A1 19971217 (DE)

Application
EP 97106050 A 19970412

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DE 19623224 A 19960611

Abstract (en)
[origin: US5826505A] A drive is provided for a sheet-fed offset printing press having multiple printing units. Each printing unit has printing cylinders which are independently driven. Transfer drums are driven mechanically uncoupled from the printing cylinders, and may be interconnected by a single gear train, or the transfer cylinders of each printing unit may be independently driven by a respective drive. Other rollers in the printing units may have individual controllable drives also. The invention minimizes disturbances caused by load fluctuations in conventional printing presses wherein the printing and transfer systems are mechanically intercoupled. The invention also is cost effective, particularly for register corrections. According to the invention, at least the plate cylinders are driven individually with respect to the sheet-transfer system or the corresponding blanket cylinder.

Abstract (de)
Beschrieben wird ein Antrieb bei einer Druckmaschine, insbesondere Bogenoffsetdruckmaschine, bei welcher die Zylinder bzw. Trommeln über einen durchgehenden Räderzug miteinander verbunden sind und die Einspeisung der Antriebsenergie über wenigstens einen auf diesen Räderzug einwirkenden Antrieb erfolgt. Die übrigen und nicht mit diesem Räderzug gekoppelten Zylinder/Trommeln oder sonstigen Walzen in den Druckwerken weisen dabei einzelne steuerbare Antriebe auf. Ausgehend von einem solchen Stand der Technik soll eine durch Vermeidung von Störgrößen den Druckprozeß verbessernde und sich kostengünstig insbesondere hinsichtlich der Realisierung von Registerkorrekturen günstig darstellende Antriebslösung geschaffen werden. Erfindungsgemäß gelingt dies dadurch, daß wenigstens ein Zylinder im jeweiligen Druckwerk einen Einzelantrieb aufweist, wobei bei einer Bogenoffsetdruckmaschine insbesondere zumindest der Plattenzylinder einzeln gegenüber dem Bogentransfersystem bzw. dem zugeordneten Gummituchzylinder angetrieben ist.

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CPC (source: EP US)
B41F 13/0045 (2013.01 - EP US); **B41P 2213/734** (2013.01 - EP US)

Citation (applicant)
• DE 4102472 A1 19920806 - HEIDELBERGER DRUCKMASCH AG [DE]
• DE 4241807 A1 19940616 - HEIDELBERGER DRUCKMASCH AG [DE]
• EP 0475120 A1 19920318 - HEIDELBERGER DRUCKMASCH AG [DE]

Citation (search report)
• [A] DE 3906646 A1 19890921 - POLYGRAPH LEIPZIG [DD]
• [A] DE 4316261 A1 19941117 - HEIDELBERGER DRUCKMASCH AG [DE]

Cited by
DE102015200148A1; DE102016208943A1; DE102015201389A1; DE102016208945A1; DE102006002087B4; DE102014218839A1; DE102014019783B4; DE102017204515B4; DE102016205342A1; DE102016205342B4; DE102007039222A1; DE102014218834A1; DE102014218838A1; DE102005018528C5; DE102008006463A1; DE102008001318A1; DE102007036092A1; DE102009045737A1; DE102015215539A1; DE102014019784B4; DE102008032939A1; DE102014218837A1; DE102015204855A1; DE102004032112B4; DE102007039235A1; DE102007018936A1; DE102015204859A1; DE102015204857A1; DE102008011408B4; WO2006018106A1; DE102008031860B4; EP0930552A3; DE102015200148B4; DE102006002087A1; DE102008059632B4; DE102005059951B4; DE102015201389B4; DE102004039536A1; DE102007029681B3; DE102005036786B3; DE102015217990B4; EP1834772A3; DE102006011412B4; DE102014218834B4; EP2277700A1; FR2948061A1; CN101954779A; DE102005018528B4; DE102014218838B4; DE102006050552A1; DE102009045737B4; DE10234402B4; EP1792728A3; DE102004032112A1; DE102007058282B4; EP2724861A3; DE102007015595B3; DE102014218839B4; DE102017204515A1; DE102006053473B4; DE102004022889A1; EP1593498A3; DE102007054565B3; EP1832418A3; DE102015204855B4; DE102006011298B4; DE102007018539B4; DE102004039588B4; EP1759839A3; EP1882588A3; DE102005040011B4; DE102005041697B4; DE102005040011C5; WO2006018105A3; WO2015040136A3; WO2010003893A1; US6332397B1; US7421948B2; DE102015217990A1; DE102016208945B4; EP0998391B1; EP1935644A1; DE102016208943B4; DE102014019783A1; DE102015215542A1; EP2060393A2; DE102008001302A1; DE102007010216A1; EP1964676A2; DE102008001466A1; DE102007051948A1; WO2004096546A1; DE102012208695A1; DE102007049453A1; EP1834772A2; EP2050568A2; DE102007039222B4; EP2111984A1; US7173356B2; DE102014019736A1; EP1593510A2; EP2085221A1; EP1593498A2; US7467586B2; WO2016146461A2; DE102007039235B4; EP1792728A2; WO2007073851A1; US8100056B2; DE102013226314A1; DE102015017063A1; EP2067619A2; DE102007058282A1; DE102015017063B4; DE102008031860A1; EP2335927A2; DE102005063630A1; DE102015017062A1; DE102015017071A1; DE102005063630B4; DE102015017071B4; DE102015017062B4; EP2095951A2; DE102008011408A1; EP1882588A2; EP1759839A2; EP1757448A2; DE202005021656U1; US8272324B2; WO2006018105A2; EP1952987A2; DE102013214785A1; DE102015215538A1; DE102015215540A1; DE102015215541A1; DE102014019784A1; DE102016202624A1; DE102016202623A1; EP1759844B2; EP1778488B1; EP2095951B1; EP1757448B2

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JP 15389797 A 19970611