Title (en)
A SHEET BUFFERING MEANS AND METHOD FOR BUFFERING SHEETS

Title (de)
BOGENPUFFERMITTEL UND VERFAHREN ZUM PUFFERN VON BÖGEN

Title (fr)
DISPOSITIF ET PROCEDE DE RETENUE PROVISOIRE DE FEUILLES

Publication
EP 1654179 A1 20060510 (EN)

Application
EP 04749099 A 20040630

Priority
• SE 2004001061 W 20040630
• SE 0301942 A 20030701

Abstract (en)
[origin: WO2005003007A1] The invention concerns sheet buffering means for placement between paper handling equipment, such as a printer or a paper picker, and paper finishing equipment, for example, equipment for stapling and/or folding, which comprises at least a set of a front pair of rollers with rotating rollers for feeding of a sheet between the rollers and a rear pair of rollers with rotating rollers for feeding of a sheet between the rollers. At least one roller in each pair is driven by a common motor or a motor each, the front driven roller is disengageable by means of a clutch for holding a lead end of a sheet at the same time as the rear driven roller is driven so that the sheet becomes bent between the two pairs of rollers. The rear pair of rollers is stopped when the trail end of the sheet reaches the rear pair of rollers, whereby the sheet may sustain bent until it is desirable to feed it out, which is achieved by starting both of the pairs of rollers. The invention also concerns a method of buffering sheets.

IPC 1-7
B65H 29/12; B65H 29/20

IPC 8 full level
B65H 29/12 (2006.01)

CPC (source: EP US)
B65H 9/004 (2013.01 - EP US); **B65H 29/12** (2013.01 - EP US); B65H 2220/09 (2013.01 - EP); B65H 2301/51212 (2013.01 - EP US);
B65H 2404/14 (2013.01 - EP US); B65H 2404/7231 (2013.01 - EP US); B65H 2801/06 (2013.01 - EP US)

Citation (search report)
See references of WO 2005003007A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005003007 A1 20050113; AT E385982 T1 20080315; CN 1819960 A 20060816; DE 602004011784 D1 20080327;
DE 602004011784 T2 20090205; EP 1654179 A1 20060510; EP 1654179 B1 20080213; JP 2007521216 A 20070802; JP 4540670 B2 20100908;
SE 0301942 D0 20030701; SE 0301942 L 20050102; SE 525481 C2 20050301; US 2006255536 A1 20061116

DOCDB simple family (application)
SE 2004001061 W 20040630; AT 04749099 T 20040630; CN 200480018839 A 20040630; DE 602004011784 T 20040630;
EP 04749099 A 20040630; JP 2006518587 A 20040630; SE 0301942 A 20030701; US 56306304 A 20040630