

Title (en)

Device for folding and transporting flat printed products in a rotary printing machine

Title (de)

Vorrichtung zum Falzen und zum Transport flacher Druckprodukte in einer Rotationsdruckmaschine

Title (fr)

Dispositif pour plier et transporter des produits plats imprimés dans une machine rotative imprimante

Publication

**EP 1013590 B1 20040303 (DE)**

Application

**EP 99124294 A 19991206**

Priority

US 20825098 A 19981209

Abstract (en)

[origin: US6322487B1] The present invention is generally directed to providing a method and apparatus for accurately and efficiently folding a flat product (e.g., a web of paper or signatures obtained therefrom) during its delivery. Exemplary embodiments provide a single device for performing the two functions of folding and decelerating flat products. Rotatable seizing elements of a deceleration drum interface with any known folding cylinder having a known tucker blade assembly. As such, the accurate and mark-free folding of a conventional jaw folder can be achieved with any desirable paging, including the wide maximum paging range typically associated with rotary tucker blade folders. A deceleration drum according to the present invention can interface with any folding cylinder having a tucker blade assembly used to create a cross-fold, and can thereby replace any conventional combination of a folder (e.g., rotary tucker blade folder or jaw folder) and associated downstream deceleration device. Seizing devices associated with the deceleration drum create a fold off of a fixed (e.g., a non-retractable) or a retractable tucker blade of the folding cylinder, each seizing element acting as a jaw which removes the signature, and creates the fold during product deceleration and delivery.

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