

Title (en)

Method and device for delivering sheet-like products

Title (de)

Verfahren und Vorrichtung zur Auslage bögenförmiger Produkte

Title (fr)

Méthode et dispositif de sortie de produits en forme de feuille

Publication

EP 0754642 B1 20001018 (DE)

Application

EP 96108055 A 19960521

Priority

US 50486795 A 19950720

Abstract (en)

[origin: US5727783A] An apparatus for delivery of sheet-like products is provided which includes a reorientating conveyer 14 coupled to deceleration unit 6, the deceleration unit 6 for receiving signatures 5 from a product forming device such as a folding or a cutting cylinder. The deceleration unit 6 slows down the signatures 5 from a single spaced configuration to an overlapped shingled configuration. The reorientation conveyer 14 grips signatures in an overlapped shingled configuration with grippers 17, the grippers 17 having a pitch 16. Since the deceleration unit 6 does not release the signatures 5 until after the grippers 17 are engaged, control over the signatures is maintained during the transfer. In the reorientation conveyer 14, the grippers 17 rotate the signatures into a spine leading formation while maintaining control over the signatures 5. A transport conveyer 22, including grippers 25 having a smaller pitch 23, receives the signatures from the reorientation conveyer 14, thereby changing the spacing between the shingled signatures to correspond to pitch 23. The transport conveyer 22 travels substantially parallel to the reorientation conveyer 14 over a second transfer area 24. Grippers 17 of the reorientation conveyer do not release the signatures 5 until after grippers 25 of the transport conveyer 22 are engaged, thereby maintaining control over the signatures throughout the transfer.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Cited by

EP0990535A1; EP1227052A1; AU782812B2; US6588745B2; US6254088B1

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DOCDB simple family (publication)

US 5727783 A 19980317; AT E197033 T1 20001115; DE 19621332 A1 19970123; DE 59606007 D1 20001123; EP 0754642 A2 19970122; EP 0754642 A3 19970827; EP 0754642 B1 20001018; JP H0940261 A 19970210

DOCDB simple family (application)

US 82787697 A 19970403; AT 96108055 T 19960521; DE 19621332 A 19960528; DE 59606007 T 19960521; EP 96108055 A 19960521; JP 19107496 A 19960719