

Title (en)

APPARATUS AND METHOD FOR INDIVIDUALLY PRINTING SIGNATURES DURING DELIVERY TO A BINDERY LINE

Publication

EP 0379879 A3 19910417 (EN)

Application

EP 90100295 A 19900108

Priority

US 29963189 A 19890123

Abstract (en)

[origin: EP0379879A2] An apparatus and method for individually printing signatures during delivery to a bindery line where a plurality of signatures are provided at a feeding station (26) for delivery to a binding line conveyor (24). The signatures are transferred by a transfer conveyor (28) which extends from a point near the feeding station to a point near a binding line conveyor. A main drum assembly (30) preferably moves the signatures one at a time from the feeding station to the transfer conveyor which follows a path to a delivery drum (32) assembly where the signatures are delivered one at a time from the transfer conveyor to the binding line conveyor. The transfer conveyor is adapted to receive one signature at a time from the main drum assembly after which the transfer conveyor carries the signatures to the delivery drum assembly which delivers signatures one at a time for deposit on the binding line conveyor. In addition, the signatures are individually printed by a non-contact printer (34) in a direction perpendicular to the backbones thereof during the course of signature transfer by the transfer conveyor.

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Citation (search report)

- [XD] US 4121818 A 19781024 - RILEY WAYNE A, et al
- [Y] US 4405122 A 19830920 - FALTIN HANS G [US]
- [Y] US 3717337 A 19730220 - MCCAIN W, et al
- [Y] US 2773585 A 19561211 - CAULFIELD JOSEPH R

Cited by

US5474285A; EP0472900A1; EP1762384A3; EP0518064A1; US5462266A; US5292111A

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