

Title (en)
METHOD OF AND APPARATUS FOR COLLATING SHEETS

Publication
EP 0026327 B1 19840718 (EN)

Application
EP 80105086 A 19800827

Priority
US 7795879 A 19790924

Abstract (en)
[origin: EP0026327A1] An offset collator comprises a sheet gripper/injector transport station (12), an oscillating sheet receiving station (14) and an offset stapling station (16). Copy sheets from an associated copier or like machine are transported to the station (12) in a specified sequence whereupon they are gripped by gripper/injector devices (36 and 38), and, in a reciprocating motion, inserted into a bin (100) of the station (14) where they are released. The bin (100) is oscillated in synchronism with the reciprocation of the devices (36 and 38), so that the copy sheets are inserted in an alternate offset posture. A logic control system causes the sheets of sets to be offset collated to be inserted between prior-inserted sheets of sets in the bin in proper order so that offset collation is effected. After offset collation is completed, the gripper/injector devices are dissociated from the oscillation of the bin. The offset stapling station then cooperates with the oscillating bin so that the offset collated sets, still in their offset posture, are stapled in the same order that the sets were formed. After offset stapling, the sets are maintained in the bin in their alternate offset posture completely finished and ready for convenient removal by an operator. In the case of offset sorting, oscillation of the bin is selectively terminated so that the bin receives all sheets of a job in one posture. It stays in this posture until all the sheet corresponding to this particular sorting job are inserted. Then the bin is oscillated to an opposite or alternate offset posture. The bin remains in this posture until all the copy sheets corresponding to this next sorting job are inserted in the bin. In this manner, with the intermittent oscillatory movement of the sheet receiving bin, different jobs can be sorted using the apparatus. If offset stapling of the sorted jobs is required, the same procedure as for the stapling of the offset collated sets is carried out by the apparatus, so that in either case finished sets or jobs are ready for convenient removal by an operator.

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IPC 8 full level
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