

Title (en)  
Sorter.

Title (de)  
Blattsortiervorrichtung.

Title (fr)  
Dispositif de triage de feuilles.

Publication  
**EP 0301538 A1 19890201 (EN)**

Application  
**EP 88112230 A 19880728**

Priority  
JP 18669487 A 19870728

Abstract (en)  
A sorter comprising a plurality of vertically arranged bin trays (50). The bin trays (50) have widthwise projecting trunnions (56) at least in one side thereof. The trunnions (56) are stacked vertically and can move in the stacking direction along a predetermined moving passage (58). The sorter further comprises a transfer mechanism (78) for elevating and lowering the trunnions (56) successively one by one along the predetermined transfer passage (58) and successively spacing adjacent bin trays (50) vertically at their sheet receiving ends to form a sheet receiving opening. The transfer mechanism (78) has a pair of cooperating rotating cam plates (86, 88). Each of the rotating cam plates (86, 88) has at least one trunnion receiving groove (94, 98) extending radially and being opened at its radial outside end and an outer circumferential cam surface (96, 100) continuously extending circumferentially excepting the site of the trunnion receiving groove (94, 98). The outer circumferential cam surface (96, 100) is a convoluted surface whose radius (r) progressively increases in a predetermined rotating direction.

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**B65H 39/11** (2013.01 - EP); **G03G 15/00** (2013.01 - KR); **B65H 2405/1111** (2013.01 - EP); **B65H 2408/113** (2013.01 - EP)

Citation (search report)  
US 4580775 A 19860408 - MARUYAMA RYUHEI [JP]

Cited by  
CN111938431A; US5131642A; EP0465761A1; US5082257A; EP0425988A3; US5088709A; EP0439032A3; US5112035A

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