



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : B65B 5/02, B31B 5/80, B65B 21/02	A1	(11) International Publication Number: WO 99/14120 (43) International Publication Date: 25 March 1999 (25.03.99)
(21) International Application Number: PCT/US98/19606 (22) International Filing Date: 21 September 1998 (21.09.98) (30) Priority Data: 9719954.1 19 September 1997 (19.09.97) GB (71) Applicant (for all designated States except US): THE MEAD CORPORATION [US/US]; Courthouse Plaza, Northeast, Dayton, OH 45463 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): BONNAIN, Jean-Christophe [FR/FR]; 14, rue du Marechal Juin, F-36000 Chateauroux (FR). DUSSART, Jean-Jacques [FR/FR]; Appartement 44, 5, rue de la Bievre, F-36000 Chateauroux (FR). EBLIN, Philippe [FR/FR]; Le Petit Valencay, F-36250 Saint-Maur (FR). (74) Agents: DREW, Michael, V. et al.; The Mead Corporation, 4850D North Church Lane, Smyrna, GA 30080 (US).	(81) Designated States: AU, BR, BY, CA, CN, CZ, EE, HU, ID, IL, JP, KE, KR, LT, LV, MX, NO, NZ, PL, RO, RU, SG, SK, TR, US, VN, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.	
(54) Title: A PACKAGING MACHINE (57) Abstract A packaging machine for packaging articles into cartons selected from, at least, a first carton or a second carton is described, wherein the first and second cartons are of a different type or size. The cartons are stored in at least one hopper, and picked for packing by a carton engaging means arranged to remove cartons from said at least one hopper and transport them sequentially to a first predetermined position. From there the cartons are transferred to a paper feed chain which transports the cartons to a second predetermined position, from where the cartons are combined with said articles. The paper feed chain comprises a support means carrying a first endless chain from which is depended a first set of guide lugs and a second endless chain from which is depended a second set of guide lugs. The guide lugs are interleaved to produce carton receiving zones, the length of which can be altered, for different carton sizes or types, by altering the relative positions of the first and second set of guide lugs. The support means is movable such that when the relative positions of the lugs is changed, this change can be compensated for such that the position of the first set of lugs with respect to said first predetermined position is unaltered.		