

Title (en)  
METHOD OF REINFORCING CARDBOARD BOXES

Publication  
**EP 0132191 B1 19880907 (FR)**

Application  
**EP 84401449 A 19840706**

Priority  
FR 8312039 A 19830718

Abstract (en)  
[origin: EP0132191A2] 1. Method for the production of a presentation box of high mechanical strenght and substantial rigidity from a (1) progrooved or prescored blank of a cardboard of small thickness able to be printed by an offset method, and to be grooved or scored according to mechanical or high-frequency methods, characterized in that it consists in selectively reinforcing the parts (25 to 29) of the blank (1) which are not traversed by a grooved or scored line (6 to 8 and 16 to 22), in such a manner that non-reinforced parts enabling subsequent forming to shape of the box are situated at either side of the different grooved or scored lines (6 to 8 and 16 to 22), which reinforcement consists in impregnating the entire surface of the cardboard (1) blank with a hardenable polymerisable resin and in exposing only the parts which are to be reinforced (25 to 29) to a high-frequency treatment thereby producing a localised polymerisation and hardening of the impregnating resin.

IPC 1-7  
**B65D 5/44**

IPC 8 full level  
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CPC (source: EP)  
**B65D 5/445** (2013.01); **B65D 5/56** (2013.01)

Citation (examination)  
• US 1569952 A 19260119 - DICKINSON JR WILLIAM W  
• US 1480809 A 19240115 - LABOMBARDE ELIE W  
• US 2556915 A 19510612 - REYNOLDS GUYER  
• US 3653578 A 19720404 - WOOD ROBERT N  
• US 4337887 A 19820706 - GERARD THOMAS J, et al

Cited by  
CN111994412A; GB2340483A; EP0196228A3; FR2561583A1; EP0216975A1; WO9854057A1; WO9826989A1

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