

Title (en)  
Assembling system for sheet-like elements, made of semi-rigid material, and use in the locking in a mounted position of squarings for bottle crates.

Title (de)  
Verbindungssystem für plattenförmige Elemente von halbsteifem Material und Anwendung zum Verriegeln von Kreuzfächern für Flaschenkasten in montierter Lage.

Title (fr)  
Système d'assemblage d'éléments en plaques, en une matière semi-rigide et application au verrouillage en position montée de croisillons pour casiers à bouteilles.

Publication  
**EP 0216669 A1 19870401 (FR)**

Application  
**EP 86401848 A 19860821**

Priority  
FR 8512594 A 19850821

Abstract (en)  
[origin: US4685609A] The invention concerns an apparatus comprising first and second planar elements, e.g. of cardboard, which may be assembled together to form a structure, e.g. a cross brace of a bottle crate. Each of these elements has a slit which extends to an edge of the respective element and into which the other element may be introduced. The slits of the two elements have linear portions which are aligned in a predetermined direction when the elements are assembled. The slit of the first element is formed to provide a flap which extends transversely with respect to the predetermined direction and which is pivotable about a folding line which extends obliquely with respect to the predetermined direction. The second element has an aperture in which the flap is engaged with the elements are assembled. Assembly of the elements in a mutually orthogonal position permits the flap to be freely pivoted about the folding line without engaging an edge of the aperture, while subsequent movement of the elements from the orthogonal position to a further position in which they lie against one another prevents the flap from pivoting freely about the folding line without engaging an edge of the aperture.

Abstract (fr)  
L'invention concerne un système d'assemblage de deux éléments plans (1, 2) en une matière semirigide du type dans lequel chacun desdits éléments comporte, à partir de l'un de ses bords, une fente (3, 4) dans laquelle l'autre élément est engagé, les fentes correspondantes des deux éléments en position assemblée étant dans le prolongement l'un de l'autre. Selon l'invention, la fente (3) de l'un desdits éléments a un profil tel qu'elle définit une partie formant un volet (8) en saillie par rapport à la direction générale de ladite fente, ledit volet étant articulé sur ledit élément par une ligne de pliage dirigée obliquement par rapport à ladite direction générale, et l'autre élément (2) comporte une ouverture (10) dans laquelle ledit volet est engagé en position assemblée.

IPC 1-7  
**B65D 5/48**

IPC 8 full level  
**B65D 5/48** (2006.01); **B65D 5/49** (2006.01)

CPC (source: EP US)  
**B65D 5/48038** (2013.01 - EP US)

Citation (search report)  
• [X] US 2466275 A 19490405 - RINGEL HAROLD A  
• [Y] US 4071185 A 19780131 - PETERS JR CHARLES LUTHER

Cited by  
FR2644758A1

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)  
**US 4685609 A 19870811**; AT E42077 T1 19890415; AU 593571 B2 19900215; AU 6162086 A 19870226; DE 3662773 D1 19890518; EP 0216669 A1 19870401; EP 0216669 B1 19890412; ES 2001382 A6 19880516; FR 2586400 A1 19870227; FR 2586400 B1 19880226; GB 2179329 A 19870304; GB 2179329 B 19890802; GB 8610433 D0 19860604; PT 83224 A 19860901; PT 83224 B 19921030

DOCDB simple family (application)  
**US 86909286 A 19860530**; AT 86401848 T 19860821; AU 6162086 A 19860820; DE 3662773 T 19860821; EP 86401848 A 19860821; ES 8601215 A 19860820; FR 8512594 A 19850821; GB 8610433 A 19860429; PT 8322486 A 19860820