

Title (en)  
A LATCH STRUCTURE

Title (de)  
VERRIEGELUNGSSTRUKTUR

Title (fr)  
STRUCTURE DE VERROUILLAGE

Publication  
**EP 4101599 A1 20221214 (EN)**

Application  
**EP 22151585 A 20220114**

Priority  
• CN 202121315213 U 20210611  
• US 202117530216 A 20211118

Abstract (en)  
A latch structure comprising an elastic pull latch is disclosed. The top of the elastic pull latch includes a latch bar configured with a latch groove. The elastic pull latch also includes an elastic boss that moves in and out of the latch cover of the pull latch. On both sides of a box, an elastic pull latch is provided at the top and a catch groove having a catch affixed to the lower edge is provided at the bottom. When two boxes are stacked together, the catch in the catch groove of the upper box is snapped into the latch groove of the elastic pull latch of the lower box to securely connect the two boxes. When the latch is released, the catch of the upper box blocks the elastic boss of the latch of the lower box to prevent the latch from retracting inwards.

IPC 8 full level  
**B25H 3/02** (2006.01)

CPC (source: EP)  
**B25H 3/02** (2013.01)

Citation (search report)  
• [X] US 2020298392 A1 20200924 - BARUCH DANNY [IL], et al  
• [X] US 9725209 B1 20170808 - BEN-GIGI ZION [IL]  
• [A] DE 202015005752 U1 20161121 - PLASTON AG [CH], et al  
• [A] US 2017166352 A1 20170615 - HOPPE CHRISTOPHER S [US], et al  
• [A] US 2008307835 A1 20081218 - GRENIER JEAN-PIERRE [CA], et al

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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