

Title (en)
PACKAGING BOX

Title (de)
VERPACKUNGSSCHACHEL

Title (fr)
BOÎTE D'EMBALLAGE

Publication
EP 4169844 A4 20231220 (EN)

Application
EP 21830088 A 20210621

Priority
• CN 202021176243 U 20200622
• CN 2021101201 W 20210621

Abstract (en)
[origin: EP4169844A1] This application relates to the field of article packaging technologies, and in particular, to a packing box. The packing box provided in this application includes an inner box and an outer box, where an inner wall of the outer box is provided with a first abutting portion, an outer side wall of the inner box is provided with an elastic protruding portion, and when the inner box is accommodated in a first accommodating cavity of the outer box, the elastic protruding portion abuts against the first abutting portion in a pull-out direction, and in this case, the packing box is in an locked state; and when the elastic protruding portion is pressed by using an external force, the elastic protruding portion is staggered with the first abutting portion, so that the inner box and the outer box are in an unlocked state. A locking structure is formed by using the elastic protruding portion and the first abutting portion for the packing box, and the locking structure is relatively simple. In addition, the locked state can be released by pressing the elastic protruding portion by using a finger, and the unlock is very convenient. Because the locking structure of the packing box is arranged in the first accommodating cavity, the unlocking position is relatively concealed, which can effectively prevent children from opening by mistake.

IPC 8 full level
B65D 5/38 (2006.01); **B65D 6/06** (2006.01); **B65D 50/12** (2006.01)

CPC (source: EP US)
B65D 5/38 (2013.01 - EP US); **B65D 50/045** (2013.01 - US); **B65D 55/02** (2013.01 - US); **B65D 2215/04** (2013.01 - EP)

Citation (search report)
• [XY] WO 2020033044 A1 20200213 - DIAMOND PACKAGING [US]
• [X] US 2018257827 A1 20180913 - DROSOS MICHAEL [US], et al
• [Y] US 2008308615 A1 20081218 - KONG SEUNG-OH [KR]
• [XP] US 2021107712 A1 20210415 - CHAMBERS CHRISTOPHER [US]
• See also references of WO 2021259190A1

Designated contracting state (EPC)
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

DOCDB simple family (publication)
EP 4169844 A1 20230426; EP 4169844 A4 20231220; CN 213168926 U 20210511; US 2023249870 A1 20230810; WO 2021259190 A1 20211230

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EP 21830088 A 20210621; CN 202021176243 U 20200622; CN 2021101201 W 20210621; US 202018011841 A 20200621