

Title (en)  
INNER MODULE STRUCTURE OF AUTO STRAPPING PACKAGING TOOL

Title (de)  
INNENMODULSTRUKTUR FÜR EIN AUTOMATISCHES UMFREIFUNGSVERPACKUNGSWERKZEUG

Title (fr)  
STRUCTURE DU MODULE INTERNE D'UN OUTIL D'EMBALLAGE À CERCLAGE AUTOMATIQUE

Publication  
**EP 4029795 A1 20220720 (EN)**

Application  
**EP 21196924 A 20210915**

Priority  
KR 20210006584 A 20210118

Abstract (en)  
Provided is an inner module structure of an auto strapping packaging tool including a tension module in which first power generated by a first dedicated motor disposed at a rear side is transmitted to a front side to provide a tensile force to a packaging plastic band, and a welding module which is disposed at one side of the tension module, and in which a gripper unit is opened or closed by second-1 power due to axial rotation in a forward direction of a second dedicated motor disposed at a rear side, and the gripper unit linearly reciprocates by second-2 power due to axial rotation in a reverse direction of the second dedicated motor to provide a friction force to the plastic band to which the tensile force is applied through the tension module.

IPC 8 full level  
**B65B 13/02** (2006.01); **B65B 13/18** (2006.01); **B65B 13/22** (2006.01); **B65B 13/32** (2006.01)

CPC (source: EP US)  
**B65B 13/025** (2013.01 - EP); **B65B 13/187** (2013.01 - EP US); **B65B 13/22** (2013.01 - EP); **B65B 13/322** (2013.01 - EP US)

Citation (applicant)  
• KR 101675003 B1 20161110  
• KR 101613247 B1 20160418  
• KR 20190034662 A 20190402 - SIGNODE IND GROUP LLC [US]

Citation (search report)  
• [A] US 6732638 B1 20040511 - ROMETTY JOHN A [US], et al  
• [AD] KR 101675003 B1 20161110

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 4029795 A1 20220720**; **EP 4029795 B1 20230222**; KR 102315946 B1 20211022; US 2022227509 A1 20220721

DOCDB simple family (application)  
**EP 21196924 A 20210915**; KR 20210006584 A 20210118; US 202117475341 A 20210915