

Title (en)
FILLING NEEDLE PROTECTION SYSTEM

Title (de)
FÜLLNADELSCHUTZSYSTEM

Title (fr)
SYSTÈME DE PROTECTION D'AIGUILLE DE REMPLISSAGE

Publication
EP 4151542 A2 20230322 (EN)

Application
EP 22382830 A 20220907

Priority
ES 202130859 A 20210915

Abstract (en)
The present invention relates to a filling needle protection system configured to be installed on a filling needle characterised in that it comprises at least: a centring device of the filling needle, configured to mount the filling needle on the fork of the filling machine; and a needle protector, comprising: a protective tube with an open end; a housing located at the end opposite the open end of the protective tube, which houses a magnet therein, configured to carry out a removable joint between the protective tube and the centring device of the filling needle; and an extension element, located adjacent to the housing of the magnet, configured to enable the needle protector to be mounted on the filling needle when the filling needle is mounted on the fork of the filling machine.

IPC 8 full level
B65B 39/00 (2006.01); **B65B 55/10** (2006.01); **B65B 3/00** (2006.01); **B65B 31/02** (2006.01)

CPC (source: EP ES)
B65B 3/003 (2013.01 - ES); **B65B 3/006** (2013.01 - ES); **B65B 31/025** (2013.01 - ES); **B65B 39/00** (2013.01 - EP); **B65B 55/04** (2013.01 - ES); **B65B 55/10** (2013.01 - EP); **B65B 55/103** (2013.01 - ES); **B65B 3/003** (2013.01 - EP); **B65B 31/025** (2013.01 - EP); **B65B 2210/08** (2013.01 - EP)

Citation (applicant)
• CN 210915250 U 20200703 - SHANGHAI LIANGXI PHARMACEUTICAL EQUIPMENT OPERATION DESIGN CO LTD, et al
• CN 203625000 U 20140604 - TRUKING TECHNOLOGY LTD

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4151542 A2 20230322; **EP 4151542 A3 20230816**; ES 2936385 A1 20230316; ES 2936385 B2 20240305

DOCDB simple family (application)
EP 22382830 A 20220907; ES 202130859 A 20210915