Title (en)
Suction gun for use in threading a take-up winding apparatus

Title (de)
Ansaugpistole zur Verwendung beim Einfädeln einer Wickelvorrichtung

Title (fr)
Pistolet d'aspiration pour utilisation dans l'enfilage d'un appareil de renvidage

Publication
EP 2639191 B1 20141001 (EN)

Application
EP 13171210 A 20110615

Priority
• JP 2010158891 A 20100713
• EP 11169965 A 20110615

Abstract (en)
[origin: EP2407407A2] [Object] Object of the invention is providing yarn threading method of take-up winding apparatus, the take-up winding apparatus, and suction gun which make decrease entanglement between yarns and vibration and make good for take-up yarns. [Solution means Purpose] A method for threading to a take-up winding apparatus using a suction gun includes regulating yarn paths for a plurality of yarns using a first roller 21 or a first yarn path guide 22 of the take-up winding apparatus. Between the suction gun 61 and a second roller or a second yarn path guide 23 of the take-up winding apparatus, a third roller 24 is brought into contact with the yarns Y. The second roller and the second yarn path guide 23 are on a downstream side relative to the first roller 21 and the first yarn path guide 22. With the third roller 24 in contact with the yarns Y, the yarns Y are fed onto the second roller or the second yarn path guide 23. After the yarns are fed onto the second roller or the second yarn path guide 23, the third roller 24 is brought out of contact with the yarns Y.

IPC 8 full level
B65H 54/88 (2006.01); **B65H 57/00** (2006.01); **B65H 65/00** (2006.01)

CPC (source: EP)
B65H 54/88 (2013.01); **B65H 57/003** (2013.01); **B65H 65/00** (2013.01); B65H 2701/31 (2013.01)

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 2407407 A2 20120118; **EP 2407407 A3 20121212**; **EP 2407407 B1 20180411**; CN 102328850 A 20120125; CN 102328850 B 20150819; EP 2639191 A1 20130918; EP 2639191 B1 20141001; JP 2012021240 A 20120202; JP 5642441 B2 20141217

DOCDB simple family (application)
EP 11169965 A 20110615; CN 201110189478 A 20110707; EP 13171210 A 20110615; JP 2010158891 A 20100713