

Title (en)
Knotter

Title (de)
Knüpfmaschine

Title (fr)
Noueur

Publication
EP 2977494 A1 20160127 (EN)

Application
EP 14405057 A 20140724

Priority
EP 14405057 A 20140724

Abstract (en)
A knotting unit for a warp tying machine for knotting together a first yarn and a second yarn, the knotting unit comprising: i. a tube extending around a longitudinal axis for supporting a loop formed with the first and second yarns; ii. a clamping part housed at least partially within the tube and moveable relative to the tube, the clamping part being adapted to cooperate with the tube, for clamping the first and second yarns therebetween, wherein in the clamping configuration, the axial position of the clamping part is fixed relative to the tube, and iii. an extractor for tightening a knot formed with the first and second yarns.

IPC 8 full level
D03J 1/18 (2006.01); **B65H 69/04** (2006.01)

CPC (source: EP)
B65H 69/04 (2013.01); **D03J 1/18** (2013.01); **B65H 2701/31** (2013.01)

Citation (applicant)
• US 2879095 A 19590324 - ALOIS ALTENWEGER
• DE 1230369 B 19661208 - KNOTEX MASCHB G M B H

Citation (search report)
• [AD] US 2879095 A 19590324 - ALOIS ALTENWEGER
• [A] SU 483470 A1 19750905
• [A] EP 1908866 A1 20080409 - STAEUBLI AG PFAEFFIKON [CH]
• [A] FR 2190963 A1 19740201 - GIFU SEKKEI KIKO KK [JP]
• [A] FR 726071 A 19320523 - SOIE DE VALENCIENNES

Cited by
CN111648010A; CN111392510A; CN112730029A

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)
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DOCDB simple family (application)
EP 14405057 A 20140724; CN 201510441174 A 20150724; JP 2015146233 A 20150723