

Title (en)

FEED DEVICES FOR SWAGABLE LOCKBOLT COLLARS

Title (de)

ZUFÜHRVORRICHTUNGEN FÜR SCHLIESSRINGE VON SCHLIESSRINGBOLZEN

Title (fr)

DISPOSITIFS D'ALIMENTATION DE BAGUES DE BOULONS À BAGUES DE SERRAGE

Publication

**EP 2974809 A1 20160120 (EN)**

Application

**EP 15177098 A 20150716**

Priority

US 201414335145 A 20140718

Abstract (en)

An air-driven feeder device for feeding lockbolt collars to a presentation position, one at a time, is provided the device comprising: a handheld grip device (102, 106) having a presentation portion (106) and a grip portion (102) with a supply passage (124), a cartridge (104) having a spiral passage (112) therein and connectable to the grip portion (102) in such a way as to communicate the spiral supply passage (112) of the cartridge (102) to the supply passage (124) of the grip portion (102), and an air supply inlet for introducing air into the cartridge's spiral passage (112) at a place and in a direction to urge collars (28) in all of the passages (112, 124) toward the presentation position in the presentation portion (106).

IPC 8 full level

**B21J 15/32** (2006.01); **B25B 23/06** (2006.01)

CPC (source: EP)

**B21J 15/022** (2013.01); **B21J 15/105** (2013.01); **B21J 15/32** (2013.01); **B25B 23/04** (2013.01)

Citation (applicant)

- US 2521048 A 19500905 - DAY RALPH K
- US 4852736 A 19890801 - KOJIMA MASAYASU [JP], et al

Citation (search report)

- [Y] US 5697521 A 19971216 - DIXON RICHARD D [US]
- [Y] US 4852376 A 19890801 - SUHOV BORIS P [US]
- [YA] DE 102009035867 A1 20100909 - SCHMIDT HEIKO [DE]
- [YA] US 3561641 A 19710209 - KERR CHARLES E JR
- [YA] US 2011289769 A1 20111201 - SKOLAUE ANDREAS [DE]

Cited by

CN109465374A

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)

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