

Title (en)  
FASTENER DRIVING APPARATUS

Title (de)  
EINTREIBGERÄT FÜR BEFESTIGUNGSMITTEL

Title (fr)  
PISTOLET À AGRAFE

Publication  
**EP 4146436 A4 20240605 (EN)**

Application  
**EP 21800032 A 20210416**

Priority  

- US 202063020299 P 20200505
- US 202016897304 A 20200610
- US 202117168191 A 20210205
- US 2021027668 W 20210416

Abstract (en)  
[origin: WO2021225770A1] A fastener device including a drive mechanism. Additionally, the fastener driving device includes a drive mechanism, the drive mechanism being capable of selectively engaging and disengaging the at least one gas spring, the at least one gas spring capable of moving to an energized position upon being engaged by the drive mechanism. Additionally, the device includes an anvil, wherein the drive mechanism includes a first lifting mechanism and a second lifting mechanism, wherein the first lifting mechanism actuates the at least one gas spring for a portion of an operation cycle, and the second lifting mechanism thereafter actuates the at least one gas spring for a subsequent portion of the operation cycle before the drive mechanism ceases applying a force on the at least one gas spring and the at least one gas spring releases a portion of its potential energy and accelerates the anvil to drive a fastener.

IPC 8 full level  
**B25C 1/04** (2006.01); **B25C 1/06** (2006.01)

CPC (source: EP)  
**B25C 1/047** (2013.01); **B25C 1/06** (2013.01)

Citation (search report)  

- [X] US 2019224825 A1 20190725 - PEDICINI CHRISTOPHER [US], et al
- [A] US 2014069671 A1 20140313 - LEIMBACH RICHARD L [US], et al
- [A] US 2017100829 A1 20170413 - PEDICINI CHRISTOPHER [US], et al
- See also references of WO 2021225770A1

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)  
**WO 2021225770 A1 20211111**; AU 2021267828 A1 20221124; CA 3180327 A1 20211111; CN 115485102 A 20221216; EP 4146436 A1 20230315; EP 4146436 A4 20240605; JP 2023524820 A 20230613

DOCDB simple family (application)  
**US 2021027668 W 20210416**; AU 2021267828 A 20210416; CA 3180327 A 20210416; CN 202180031201 A 20210416; EP 21800032 A 20210416; JP 2022567603 A 20210416