

Title (en)
HANDLE ASSEMBLY PROVIDING UNLIMITED ROLL

Title (de)
GRIFFANORDNUNG MIT UNBEGRENZTER ROLLE

Title (fr)
ENSEMBLE POIGNÉE À ROULEAU NON LIMITÉ

Publication
EP 4178470 A1 20230517 (EN)

Application
EP 21842968 A 20210713

Priority
• US 202016926928 A 20200713
• US 2021041365 W 20210713

Abstract (en)
[origin: WO2022015686A1] An example roll handle assembly includes a handle body, a roll body, a closure body, and a shuttle body. The roll body is coupled to the handle body and has a rotational degree of freedom about a roll axis relative to the handle body. The roll body is translationally constrained along the roll axis relative to the handle body. The closure body is coupled to the handle body and has one or more degrees of freedom of motion relative to the handle body. The shuttle body is coupled to the roll body and the closure body, and has a translational degree of freedom along the roll axis relative to the roll body. The shuttle body is rotationally constrained about the roll axis relative to the roll body, and has a rotational degree of freedom about the roll axis relative to the closure body.

IPC 8 full level
A61B 17/28 (2006.01); **A61B 17/00** (2006.01); **A61B 17/29** (2006.01)

CPC (source: EP IL)
A61B 17/062 (2013.01 - EP IL); **A61B 17/2909** (2013.01 - EP IL); **A61B 2017/00017** (2013.01 - EP IL); **A61B 2017/003** (2013.01 - EP IL); **A61B 2017/00314** (2013.01 - EP IL); **A61B 2017/00327** (2013.01 - EP IL); **A61B 2017/00407** (2013.01 - EP IL); **A61B 2017/00424** (2013.01 - EP IL); **A61B 2017/00438** (2013.01 - EP IL); **A61B 2017/00442** (2013.01 - EP IL); **A61B 2017/291** (2013.01 - EP IL); **A61B 2017/2929** (2013.01 - EP IL); **A61B 2090/067** (2016.02 - EP IL)

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)
WO 2022015686 A1 20220120; CN 116322537 A 20230623; EP 4178470 A1 20230517; IL 299240 A 20230201; JP 2023534445 A 20230809; KR 20230037045 A 20230315

DOCDB simple family (application)
US 2021041365 W 20210713; CN 202180062542 A 20210713; EP 21842968 A 20210713; IL 29924022 A 20221219; JP 2023501880 A 20210713; KR 20237004492 A 20210713