

Title (en)
PRECISION COUPLING

Title (de)
PRÄZISIONSKUPPLUNG

Title (fr)
COUPLAGE DE PRÉCISION

Publication
EP 3899418 A1 20211027 (EN)

Application
EP 19821125 A 20191219

Priority
• EP 18213970 A 20181219
• EP 2019086322 W 20191219

Abstract (en)
[origin: WO2020127744A1] The present invention relates to a precision coupling (3) for precise positioning of a first object (1) relative to a second object (2). It comprises two or more stackable bodies (4,5,9) each having a lower surface and an upper surface. When the bodies are stacked, all other upper and lower surfaces than the bottom body lower surface (4a) and the top body upper surface (5b) mutually form a pair of facing surfaces of adjacent bodies. For each pair of facing surfaces, one or both of the facing surfaces has three or more discrete contact elements (6,7). When the bodies are stacked, the contact elements mate with corresponding contact elements on the other facing surface so that the six relative degrees of freedom between the two adjacent bodies become deterministically constrained. For each of at least one body of the two or more stackable bodies, the upper and lower surfaces of that at least one body are inclined relative to each other.

IPC 8 full level
G01B 5/00 (2006.01); **G02B 7/00** (2021.01)

CPC (source: EP)
G01B 5/0004 (2013.01); **G02B 7/003** (2013.01)

Citation (search report)
See references of WO 2020127744A1

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)
WO 2020127744 A1 20200625; EP 3899418 A1 20211027

DOCDB simple family (application)
EP 2019086322 W 20191219; EP 19821125 A 20191219