

Title (en)
DUSTPROOF STRUCTURE OF GRINDING TOOL HOLDER

Title (de)
STAUBDICHTE STRUKTUR EINES SCHLEIFWERKZEUGHALTERS

Title (fr)
STRUCTURE RÉSISTANT À LA POUSSIÈRE DE PORTE-OUTIL DE MEULAGE

Publication
EP 4241922 A1 20230913 (EN)

Application
EP 22161292 A 20220310

Priority
EP 22161292 A 20220310

Abstract (en)
A dustproof structure of a grinding tool holder (20), which comprises a shaft portion (21) and a counterweight portion (22) connected to one end of the shaft portion (21). The counterweight portion (22) comprises an eccentric block (23) connected to the shaft portion (21), at least one bearing (24) mounted in the eccentric block (23), a dustproof ring (25), and a grinding member assembling head (26) assembled with the bearing (24). The eccentric block (23) is formed with an assembly port (233) for disposing the bearing (24) and the dustproof ring (25), the dustproof ring (25) is located on a side of the bearing (24) facing the grinding member assembling head (26), and formed with a first continuous concave-convex structure (251) on a side away from the bearing (24), the grinding member assembling head (26) is formed with a second continuous concave-convex structure (261) on a side facing the dustproof ring (25), the first and second continuous concave-convex structures (251 and 261) match with each other and define dust blocking dots (271).

IPC 8 full level
B24B 45/00 (2006.01); **B24B 23/02** (2006.01); **B24B 23/03** (2006.01); **B24B 55/00** (2006.01)

CPC (source: EP)
B24B 23/03 (2013.01); **B24B 55/00** (2013.01)

Citation (applicant)
• US 6878049 B2 20050412 - HEIDELBERGER RICHARD A [US], et al
• KR 20150000792 A 20150105 - KIM JEONG NAM [KR]
• TW 439616 U 20010607 - SUEN YUNG YUNG [TW]
• US 6855040 B2 20050215 - HUBER PAUL W [US]

Citation (search report)
• [XYI] CN 210739375 U 20200612 - DONGGUAN KAIBAO PREC MACHINERY CO LTD
• [Y] US 2003129934 A1 20030710 - HUBER PAUL W [US]
• [A] EP 1424164 A1 20040602 - DYNABRADE [US]

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)
EP 4241922 A1 20230913

DOCDB simple family (application)
EP 22161292 A 20220310