

Title (en)

BIT HOLDER WITH SHORTENED NOSE PORTION

Title (de)

BOHRSPITZENHALTER MIT VERKÜRZTEM NASENABSCHNITT

Title (fr)

SUPPORT DE TRÉPAN AYANT UNE PORTION DE POINTE RACCOURCIE

Publication

EP 3650633 A1 20200513 (EN)

Application

EP 19176209 A 20190523

Priority

US 201816181591 A 20181106

Abstract (en)

A bit holder that includes a front portion and a shank axially depending from the front portion. The front portion having an axial length that is less than the axial length of the shank. A combination bit holder and base block that includes the bit holder with the front portion having an axial length that is less than the axial length of the shank. The base block including a mounting portion and a device receiving portion, the device receiving portion including a length that is the same or less than a length of the mounting portion. The base block having a device receiving portion that includes a length shorter than a length of the mounting portion adapted to provide increased access to the rear of the bit assembly allowing the base blocks to be mounted closer to each other for micro-milling operations. Shortened bit holder shanks are reconfigured from prior art to provide increased holding power between the bit holder shank and base block bore.

IPC 8 full level

E21C 35/18 (2006.01); **E21C 35/19** (2006.01); **E21C 35/197** (2006.01)

CPC (source: CN EP)

E21B 10/00 (2013.01 - CN); **E21B 10/55** (2013.01 - CN); **E21B 12/00** (2013.01 - CN); **E21B 17/03** (2013.01 - CN); **E21B 19/10** (2013.01 - CN); **E21C 35/19** (2013.01 - EP)

Citation (applicant)

- US 6371567 B1 20020416 - SOLLAMI PHILLIP A [US]
- US 6585326 B2 20030701 - SOLLAMI PHILLIP A [US]
- US 6739327 B2 20040525 - SOLLAMI PHILLIP A [US]

Citation (search report)

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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)

EP 3650633 A1 20200513; CA 3041373 A1 20200506; CN 111140178 A 20200512; JP 2020076308 A 20200521

DOCDB simple family (application)

EP 19176209 A 20190523; CA 3041373 A 20190426; CN 201911077828 A 20191106; JP 2019194469 A 20191025