

Title (en)
PROJECTED SCALE FOR DEPTH MEASUREMENT

Title (de)
PROJIZIERTE SKALA FÜR TIEFENMESSUNG

Title (fr)
ÉCHELLE PROJÉTÉE POUR LA MESURE DE LA PROFONDEUR

Publication
EP 3209447 A1 20170830 (DE)

Application
EP 15766863 A 20150923

Priority
• EP 14190026 A 20141023
• EP 2015071829 W 20150923

Abstract (en)
[origin: WO2016062491A1] A device (2) for determining a penetration depth in a drilled hole which is drilled into a workpiece (W) from a workpiece surface (WO) with a drill of a drilling machine (1). The device contains at least one light source (9) for projecting a light field (17), for example onto a workpiece (W) to be processed by the drilling machine (1). The light source (9) is positioned with respect to the drilling machine (1) in such a way that a centre axis (L) of the light source (9) runs at an angle (a) with respect to a central axis (L) of the drilling machine (1), and at least a first blocking element (12a, 12b, 12c) for partially covering the light source (9) is provided, said blocking element (12a, 12b, 12c) generating a scaling device (19) on the light field (17).

IPC 8 full level
B23B 49/00 (2006.01); **B23Q 17/22** (2006.01); **B23Q 17/24** (2006.01); **B25F 5/00** (2006.01); **B25H 1/00** (2006.01)

CPC (source: EP US)
B23Q 17/2233 (2013.01 - EP US); **B23Q 17/2404** (2013.01 - US); **B23Q 17/2414** (2013.01 - EP US); **B23Q 17/2428** (2013.01 - US); **B25F 5/003** (2013.01 - EP US); **B25H 1/0092** (2013.01 - EP US); **G01B 11/22** (2013.01 - US)

Citation (search report)
See references of WO 2016062491A1

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 3012051 A1 20160427; CN 106794574 A 20170531; CN 106794574 B 20190924; EP 3209447 A1 20170830; US 10131027 B2 20181120; US 2017225284 A1 20170810; WO 2016062491 A1 20160428

DOCDB simple family (application)
EP 14190026 A 20141023; CN 201580046921 A 20150923; EP 15766863 A 20150923; EP 2015071829 W 20150923; US 201515502605 A 20150923