

Title (en)

Magnetic drill stand with retention force monitoring

Title (de)

Magnetbohrständer mit Überwachung der Haltekraft

Title (fr)

Support électromagnétique avec surveillance de la résistance

Publication

EP 2251154 B1 20120321 (DE)

Application

EP 10157835 A 20100325

Priority

DE 102009022333 A 20090513

Abstract (en)

[origin: EP2251154A1] The stand (10) has electromagnets (14) fixing the stand to a ferromagnetic component (12). A voltage source is coupled with the electromagnets. A safety device (28) monitors retaining force of the electromagnets. The safety device includes a monitoring device for monitoring current intensity of the electromagnets. The safety device produces a signal for magnet retaining force within a test phase when the current intensity of the electromagnets lies at two preset time points after beginning of the test phase below a preset threshold. An independent claim is also included for a method for monitoring retaining force of electromagnets in a magnetic drill stand.

IPC 8 full level

B25H 1/00 (2006.01)

CPC (source: EP US)

B25H 1/0071 (2013.01 - EP US); **Y10T 408/16** (2015.01 - US); **Y10T 408/17** (2015.01 - US); **Y10T 408/21** (2015.01 - US); **Y10T 408/554** (2015.01 - US)

Cited by

CN106734532A; US10583539B2

Designated contracting state (EPC)

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 SE SI SK SM TR

DOCDB simple family (publication)

EP 2251154 A1 20101117; **EP 2251154 B1 20120321**; AT E550153 T1 20120415; DE 102009022333 A1 20101118; US 2010290847 A1 20101118; US 8545139 B2 20131001

DOCDB simple family (application)

EP 10157835 A 20100325; AT 10157835 T 20100325; DE 102009022333 A 20090513; US 77358510 A 20100504