

Title (en)
ARRANGEMENT IN ROCK DRILLING RIG

Title (de)
ANORDNUNG IN EINEM GESTEINSBOHRGESTELL

Title (fr)
AGENCEMENT DANS UNE INSTALLATION DE FORAGE DE ROCHE

Publication
EP 3159474 A1 20170426 (EN)

Application
EP 15190931 A 20151022

Priority
EP 15190931 A 20151022

Abstract (en)
The invention relates to control system of a rock drilling rig. The system comprises a distributed actuator system wherein several actuators are connected to a common power circuit and are being controlled by distributed actuator drivers. The system further comprises one or more data busses (DB) which are connected to actuator drivers (AD) and/or sensing devices (SD) of the system. At least one data bus is divided into two or more segments (DBS). The invention also relates to a rock drilling rig and method for controlling the same.

IPC 8 full level
E21B 6/00 (2006.01); **E21B 6/04** (2006.01); **E21B 7/02** (2006.01); **E21B 19/086** (2006.01)

CPC (source: EP)
E21B 6/00 (2013.01); **E21B 6/04** (2013.01); **E21B 7/022** (2013.01); **E21B 7/025** (2013.01); **E21B 19/086** (2013.01)

Citation (search report)
• [XYI] WO 2008017732 A1 20080214 - SANDVIK MINING & CONSTR OY [FI], et al
• [X] US 2005194182 A1 20050908 - RODNEY PAUL F [US], et al
• [X] US 5679894 A 19971021 - KRUGER VOLKER [DE], et al
• [Y] US 5191326 A 19930302 - MONTGOMERY MICHAEL A [US]

Cited by
CN112878981A; CN110219638A; EP3564476A1; US11131145B2

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 3159474 A1 20170426; AU 2016247127 A1 20170511; CA 2945334 A1 20170422

DOCDB simple family (application)
EP 15190931 A 20151022; AU 2016247127 A 20161020; CA 2945334 A 20161014