Title (en)

LOCKING MECHANISM WITH MULTIPLE STAGE LOCKING VERIFICATION

Title (de)

VERRIEGELUNGSMECHANISMUS MIT MEHRSTUFIGER VERRIEGELUNGSVERIFIZIERUNG

Title (fr)

MÉCANISME DE VERROUILLAGE À VÉRIFICATION DE VERROUILLAGE EN PLUSIEURS ÉTAPES

Publication

EP 3619381 B1 20220706 (EN)

Application

EP 18794292 A 20180502

Priority

- US 201715584882 A 20170502
- US 2018030703 W 20180502

Abstract (en)

[origin: WO2018204522A1] A system and method for a locking mechanism that includes an ability to indicate proper engagement via a signal cable coupled through a harness. The locking mechanism may include electronic components including three magnetic actuators and corresponding electronic switches that signal change of state. Locking tabs and a leading edge of the insert respectively include the three magnetic actuators. The electronic switches, which may be magnetically activated reed switches, signal status change to an external controller and, optionally, an external computer. Further, status signals and power signals may be routed through a steel cable or woven nylon harness that coupled the locking mechanism to a local anchor point. Change of status notification may be important on critical safety worksites where lack of mechanical and electronic connection can be life threatening.

IPC 8 full level

E05B 15/00 (2006.01); **A44B 11/25** (2006.01); **G06F 17/00** (2019.01); **G08B 21/18** (2006.01)

CPC (source: EP)

A44B 11/2519 (2013.01); **A44B 11/2569** (2013.01); G08B 21/18 (2013.01)

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

DOCDB simple family (publication)

WO 2018204522 A1 20181108; CA 3059471 A1 20181108; EP 3619381 A1 20200311; EP 3619381 A4 20210127; EP 3619381 B1 20220706

DOCDB simple family (application)

US 2018030703 W 20180502; CA 3059471 A 20180502; EP 18794292 A 20180502