

Title (en)

ELECTRONIC SEAL AND ELECTRONIC LOCK, AND IMPLEMENTATION METHOD FOR ELECTRONIC SEAL

Title (de)

ELEKTRONISCHES SIEGEL UND ELEKTRONISCHES SCHLOSS UND IMPLEMENTIERUNGSVERFAHREN FÜR ELEKTRONISCHES SIEGEL

Title (fr)

SCEAU ÉLECTRONIQUE ET VERROU ÉLECTRONIQUE, ET PROCÉDÉ DE MISE EN OEUVRE DE SCEAU ÉLECTRONIQUE

Publication

**EP 3323756 A1 20180523 (EN)**

Application

**EP 16823835 A 20160708**

Priority

- CN 201510412193 A 20150714
- CN 2016089309 W 20160708

Abstract (en)

An electronic seal, electronic lock and an implementation method of electronic seal are provided in the present invention. According to an embodiment, the electronic seal is removably attached to an exterior surface of an object to be sealed, the electronic seal comprising: a seal-tearing sensor configured to have different states when the electronic seal is attached to the object to be sealed and when the electronic seal is not attached to the object to be sealed; a control unit configured to determine the state of the electronic seal at least partially based on the state of the seal-tearing sensor; and a communication unit configured to communicate with an external device to send state data of the electronic seal.

IPC 8 full level

**B65D 90/54** (2006.01)

CPC (source: EP)

**B65D 90/54** (2013.01); **G09F 3/03** (2013.01); **G09F 3/0329** (2013.01)

Cited by

CN113424237A; JP2022516580A; US11507771B2; US11062256B2; US11663549B2; US11900307B2; US11249169B2; US10956854B2; US10977460B2; WO2020176504A1; US11244378B2

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 3323756 A1 20180523**; **EP 3323756 A4 20190327**; **EP 3323756 B1 20210224**; CN 105096739 A 20151125; CN 105096739 B 20200327; HK 1217809 A1 20170120; MX 2016010412 A 20180627; MY 186006 A 20210614; WO 2017008688 A1 20170119

DOCDB simple family (application)

**EP 16823835 A 20160708**; CN 201510412193 A 20150714; CN 2016089309 W 20160708; HK 16105822 A 20160523; MX 2016010412 A 20160708; MY PI2016702849 A 20160804