

Title (en)
A LOCK CONTROL SYSTEM FOR A TRAIN LOCOMOTIVE

Title (de)
EIN SCHLOSSKONTROLLSYSTEM FÜR EINE ZUGLOKOMOTIVE

Title (fr)
SYSTÈME DE COMMANDE D'UNE LOCOMOTIVE DU TRAIN

Publication
EP 3933155 A1 20220105 (EN)

Application
EP 21182573 A 20210629

Priority
PL 43453720 A 20200701

Abstract (en)
The control system for a train locomotive lock interlock, especially a door lock, contains a locking bar (6) located above and along the base bar (1), a controlled actuator (4), which slides parallel to the base bar (1), or the lock longitudinal axis, coupled with the locking bar (6) via a tie rod (5), whereas the locking bar tongue (2) has an oblique bean-shaped hole (9), cooperating with the bolt lock pin (7), while the system also contains a stabilizer (10), interlock limit switch and door closing limit switch (3), while the locking bar (6) contains recesses (11) cooperating with the key insert (13, 14), which limit its length, while the actuator (4) and interlock limit switch (3) are coupled within the electronic system with a control processor, a card reader and keyboard, display, Ethernet network access and USB input, and indirectly, via the power output with the actuator (4).

IPC 8 full level
E05B 83/42 (2014.01); **B61D 19/00** (2006.01); **E05B 81/00** (2014.01)

CPC (source: EP)
E05B 81/00 (2013.01); **E05B 83/363** (2013.01); **E05B 83/42** (2013.01)

Citation (applicant)
• PL 390402 A1 20110816 - LUBELSKA POLT [PL]
• CN 109057583 A 20181221 - SCIENCE TECH RESEARCH INSTITUTE CHINA RAILWAY CHENGDU GROUP CO LTD
• CN 208216705 U 20181211 - ZHUZHOU HUAAN LOCOMOTIVE PRODUCTS NEW TECH DEVELOPMENT CO LTD

Citation (search report)
• [A] DE 102010006316 A1 20110922 - SCHLIESS UND SICHERUNGSSYSTEME GMBH [DE]
• [A] KR 200475170 Y1 20141111
• [A] JP 2011001749 A 20110106 - KAWASAKI HEAVY IND LTD, et al
• [A] DE 102010005261 B4 20120209 - CLEFF GMBH CARL WILHELM [DE]
• [A] CN 204715942 U 20151021 - CSR ZHUZHOU ELEC LOCO RES INST

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 3933155 A1 20220105; PL 241340 B1 20220912; PL 434537 A1 20220103

DOCDB simple family (application)
EP 21182573 A 20210629; PL 43453720 A 20200701