

Title (en)  
ELEVATOR CONTROL SYSTEM

Title (de)  
STEUERUNGSSYSTEME FÜR EINEN AUFZUG

Title (fr)  
SYSTÈME DE COMMANDE D'ASCENSEUR

Publication  
**EP 3904268 B1 20230823 (EN)**

Application  
**EP 21180578 A 20170421**

Priority  
• EP 21180578 A 20170421  
• EP 17167610 A 20170421

Abstract (en)  
[origin: EP3392191A1] Communication apparatus comprising: a communication device (1) with at least one microprocessor (101); at least one cryptoprocessor (102); and memory (103) having instructions stored thereon that, when executed by the at least one microprocessor and the at least one cryptoprocessor, cause the communication device to at least one of: Receive from the cloud (5) encrypted data that is configured to control at least core operations associated with an elevator or escalator device (34, 35, 36), decrypt the data, and distribute the data over at least one data connection between the communication device (1) and at least one core controller (24) associated with said elevator or escalator device (34, 35, 36) to said at least one core controller (24) to be used by said core controller (24) to control at least core operations associated with said elevator or escalator device (34, 35, 36), or receive control feedback data over at least one data connection between the communication device (1) and at least one core controller (24) associated with an elevator or escalator device (34, 35, 36) to said at least one core controller (1), encrypt the data, and send the encrypted data to the cloud (5). Encrypting the data which is communicated between the communication devices allows to maintain the security level obtained with conventionally controlled elevator and escalator devices even when control over non-core functionalities are moved or relocated to remote devices or into the cloud in general.

IPC 8 full level  
**B66B 25/00** (2006.01); **B66B 1/34** (2006.01)

CPC (source: EP)  
**B66B 1/3423** (2013.01); **B66B 1/3446** (2013.01); **B66B 25/00** (2013.01)

Citation (opposition)  
Opponent : Otis Elevator Company  
• JP 2014172714 A 20140922 - HITACHI LTD  
• CN 104986634 A 20151021 - GUANGZHOU GUANGRI ELEVATOR INDUSTRY CO LTD  
• US 2006260880 A1 20061123 - AMANO MASAOKI [JP]  
• CN 104495553 A 20150408 - ANHUI ZHONGCHENG INTELLIGENT TECHNOLOGY CO LTD  
• US 9596078 B2 20170314 - NIX JOHN A [US]  
• US 8770350 B2 20140708 - WILKE MICHAEL [DE], et al

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)  
**EP 3392191 A1 20181024; EP 3392191 B1 20210623; EP 3904268 A1 20211103; EP 3904268 B1 20230823**

DOCDB simple family (application)  
**EP 17167610 A 20170421; EP 21180578 A 20170421**