Title (en)
SENSOR NETWORK-BASED ANALYSIS AND/OR PREDICTION METHOD, AND REMOTE MONITORING SENSOR DEVICE

Title (de)
SENSORNETZWERKBASIERTES ANALYSE- UND/ODER VORHERSAGEVERFAHREN UND FERNÜBERWACHUNGSSENSORVORRICHTUNG

Title (fr)
PROCÉDÉ D'ANALYSE ET/OU DE PRÉDICTION FONDÉ SUR UN RÉSEAU DE CAPTEURS ET SYSTÈME CAPTEUR DE TÉLÉSURVEILLANCE

Publication
EP 4208708 A1 20230712 (DE)

Application
EP 21770150 A 20210826

Priority
• DE 102020122861 A 20200901
• EP 2021073575 W 20210826

Abstract (en)
[origin: CA3191135A1] A sensor-network-based analysis and/or prediction method for a protection from natural hazards is proposed, comprising at least the method steps (150, 152, 154, 156, 158): receiving and collecting electronic sensor data from distributedly arranged sensor modules (10, 10?, 10??) of an outdoor sensor network (12) in an external analysis and/or prediction unit (14), the sensor data comprising at least outdoor corrosion measurement data, impact sensor data and/or rope force sensor data, the sensor data comprising at least tropospheric measurement data, and at least one tropospheric measurement dataset being, in particular geographically, allocated to each outdoor corrosion measurement dataset; storing the received sensor data of the outdoor sensor network (12) in a memory unit (16) of the external analysis and/or prediction unit (14); analyzing the received sensor data of the outdoor sensor network (12) for a determination of a natural hazard risk in respective application areas (20, 20?, 20??) of the sensor modules (10, 10?, 10??) of the outdoor sensor network (12) by the external analysis and/or prediction unit (14), wherein at least one further information regarding the application area (20, 20?, 20??), which is different from the outdoor corrosion measurement data and the tropospheric measurement data, is directly integrated into the analysis for the determination of the natural hazard risk; and providing the natural hazard risk determined by the external analysis and/or prediction unit (14) to an, in particular authorized, user group (18).

IPC 8 full level
G01N 17/00 (2006.01); **G01N 33/00** (2006.01); **H04W 4/38** (2018.01)

CPC (source: EP KR US)
G01L 5/04 (2013.01 - KR); **G01M 99/00** (2013.01 - US); **G01N 17/00** (2013.01 - EP); **G01N 17/006** (2013.01 - KR); **G01N 17/008** (2013.01 - KR); **G01N 33/0031** (2013.01 - EP KR); **G01N 33/0075** (2013.01 - EP KR); **G01P 15/00** (2013.01 - KR); **G06Q 50/10** (2013.01 - KR); **H04L 67/12** (2013.01 - KR); **H04W 4/38** (2018.02 - KR); H04L 67/12 (2013.01 - EP); H04W 4/38 (2018.02 - EP); H04W 84/18 (2013.01 - US)

Designated contracting state (EPC)
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