Title (en)

ARTIFICIAL INTELLIGENCE BASED HARMFUL ENVIRONMENT CONTROL SYSTEM CONNECTED TO INTERNET OF THINGS AND ITS HARMFUL ENVIRONMENT CONTROL METHOD

Title (de)

AUF KÜNSTLICHER INTELLIGENZ BASIERENDES STEUERSYSTEM FÜR EINE SCHÄDLICHE UMGEBUNG, DAS MIT DEM INTERNET DER DINGE VERBUNDEN IST, UND STEUERVERFAHREN FÜR DIE SCHÄDLICHE UMGEBUNG DAFÜR

Title (fr)

SYSTÈME DE COMMANDE D'ENVIRONNEMENT NOCIF BASÉ SUR L'INTELLIGENCE ARTIFICIELLE CONNECTÉ À L'INTERNET DES OBJETS ET SON PROCÉDÉ DE COMMANDE D'ENVIRONNEMENT NOCIF

Publication

EP 4372711 A1 20240522 (EN)

Application

EP 22207723 A 20221116

Priority

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Abstract (en)

The present invention relates to an artificial intelligence based harmful environment control system connected to Internet of things and a control method thereof, and the artificial intelligence based harmful environment control system includes: a plurality of IoT sensors measuring a harmful element and an environmental element of a closed space, and whether there is a person in the closed space; a controller unit controlling to display a harmful element measurement value and an environmental element measurement value provided from the plurality of IoT sensors, comparing the harmful element measurement value with a reference range measurement value to determine a harmful environment situation by artificial intelligence according to the reference range measurement value and whether there is the person, deciding a control method corresponding to the determined harmful environment situation, and then selecting and providing an operation control signal for resolving a harmful element according to the decided control method, selecting and controlling to output a guidance message corresponding to the harmful environment situation, and transmitting harmful element control information including the harmful element measurement value, the environmental element measurement value, the harmful environment situation, and the control method; a display panel displaying the harmful element measurement value and the environmental element measurement value according to the control of the controller unit, and displaying the guidance screen; a speaker voice-outputting the guidance message according to the control of the controller unit; and a ventilation operating device operated to resolve the harmful element by receiving the operation control signal to prevent casualties, and provide various home networking services including a remote control.

IPC 8 full level

G08B 21/14 (2006.01); G08B 7/06 (2006.01); G08B 21/12 (2006.01); G08B 21/22 (2006.01)

CPC (source: EP)

G08B 21/14 (2013.01); **G08B 21/22** (2013.01); **G08B 29/186** (2013.01); G08B 7/066 (2013.01); G08B 21/12 (2013.01)

Citation (applicant)

KR 102106195 B1 20200429

Citation (search report)

- [XI] US 2021381861 A1 20211209 - BROWN JULIE J [US], et al
- [XI] US 2019145648 A1 20190516 - SINHA SUDHI [US], et al
- [A] WO 2021194944 A1 20210930 - VIEW INC [US]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

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DOCDB simple family (publication)

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