

Title (en)

FLOOD PROTECTION FOR UNDERGROUND AIR VENTS

Title (de)

HOCHWASSERSCHUTZ FÜR UNTERIRDISCHE BELÜFTUNGSÖFFNUNGEN

Title (fr)

PROTECTION CONTRE L'INONDATION DESTINÉE AUX BOUCHES D'AIR SOUTERRAINES

Publication

**EP 3485114 C0 20230927 (EN)**

Application

**EP 17828561 A 20170714**

Priority

- US 201662363024 P 20160715
- US 2017042214 W 20170714

Abstract (en)

[origin: WO2018013974A1] Apparatus allowing ventilation through a ventilation shaft to an underground ventilation duct fluidly communicating through the ventilation shaft to an atmospheric opening of the shaft and on threat of flooding operable to prevent downward flow of surface water into the ventilation duct includes support sidewalls fitting in the shaft providing a ventilation passage between support top and bottom openings and a suspension member supported on opposed lateral sidewalls proximate the top opening holding one or more hinge connected panels that manually release to rotationally close the passage and are manually rotationally liftable to a home position allowing ventilation. A panel drain automatically closes when the panel is raised to home position so it is already closed when the panel is released to rotationally close the passage.

IPC 8 full level

**E04H 9/14** (2006.01); **E06B 7/02** (2006.01); **E06B 7/14** (2006.01); **E21F 1/08** (2006.01); **E21F 1/16** (2006.01); **E21F 17/103** (2006.01); **E21F 17/12** (2006.01)

CPC (source: EP)

**E21F 1/003** (2013.01); **E21F 1/08** (2013.01); **E06B 2009/007** (2013.01); **F24F 13/02** (2013.01)

Cited by

CN109707268A

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

Participating member state (EPC – UP)

AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)

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