

Title (en)
INTAKE-TYPE SMOKE REMOVAL SYSTEM

Title (de)
ANSAUGRAUCHENTFERNUNGSSYSTEM

Title (fr)
SYSTÈME D'ÉLIMINATION DE FUMÉE DU TYPE À ABSORPTION

Publication
EP 4230922 A4 20240327 (EN)

Application
EP 21886755 A 20211026

Priority
• KR 20200139493 A 20201026
• KR 20210136047 A 20211013
• KR 2021015096 W 20211026

Abstract (en)
[origin: EP4230922A1] The present invention relates to an intake-type smoke removal system. The intake-type smoke removal system discharges gas flowing into a smoke removal zone to the outside of the smoke removal zone and includes a vacuum-generating multistage Venturi configured to allow water provided from the outside to pass therethrough, the vacuum-generating multistage Venturi being configured to generate negative pressure based on the Venturi effect while the water passes therethrough to suck the gas in the smoke removal zone, mix the sucked gas with the water, and discharge the gas mixed with the water.

IPC 8 full level
F24F 7/007 (2006.01); **A62B 13/00** (2006.01); **F04F 5/04** (2006.01); **F24F 11/34** (2018.01)

CPC (source: EP US)
F04F 5/04 (2013.01 - EP US); **F24F 7/007** (2013.01 - EP); **F24F 7/06** (2013.01 - US); **F24F 11/34** (2018.01 - EP); **F24F 2007/001** (2013.01 - US); **F24F 2221/50** (2013.01 - EP)

Citation (search report)
• [E] EP 4209252 A1 20230712 - KIM JUNG GYU [KR]
• [XAY] KR 20140002970 A 20140109 - KIM SUNG WOO [KR], et al
• [Y] KR 101662267 B1 20161005 - DONG HWA E&C CO LTD [KR]
• [Y] KR 20070001065 U 20071004
• See also references of WO 2022092761A1

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 4230922 A1 20230823; **EP 4230922 A4 20240327**; JP 2023547135 A 20231109; JP 7561982 B2 20241004; US 2023400203 A1 20231214; WO 2022092761 A1 20220505

DOCDB simple family (application)
EP 21886755 A 20211026; JP 2023524582 A 20211026; KR 2021015096 W 20211026; US 202118033831 A 20211026