

Title (en)  
AIR CURTAIN FOR SMOKE CONTROL

Title (de)  
LUFTVORHANG ZUR RAUCHKONTROLLE

Title (fr)  
RIDEAU D'AIR POUR LE CONTRÔLE DE LA FUMÉE

Publication  
**EP 2995877 A3 20160427 (EN)**

Application  
**EP 15184842 A 20150911**

Priority  
PT 10788014 A 20140911

Abstract (en)  
[origin: EP2995877A2] The present application discloses an air curtain combined with a mechanical extraction of smoke, released by a fire in a room, which comprises a vertical or horizontal plane jet with appropriate slope, generated by a cylindrical rotor fan enclosed in a housing with two openings, one outside the room and the other on the lower side. In this manner, this technology is useful for confining the flow of smoke, produced in fire situations in buildings, only to the room of fire origin, without the need of closing the passage ways with smoke doors, and without being necessary to set speeds for the air flowing through those passages, within the same range of the speed of the smoke flow, this being the technical problem solved. The usage of this system is compatible with current smoke exhaust means to be applied to buildings, and makes it unnecessary to inflate fresh air inside that room, once this is now done through the passage way, which remains protected by the air curtain.

IPC 8 full level  
**F24F 9/00** (2006.01); **A62C 2/04** (2006.01); **A62C 3/00** (2006.01); **A62C 4/00** (2006.01)

CPC (source: EP)  
**A62C 2/04** (2013.01); **A62C 3/14** (2013.01); **F24F 9/00** (2013.01); **F24F 2009/002** (2013.01)

Citation (search report)

- [X] DE 10240745 A1 20040318 - HORCH FABIAN [DE]
- [X] DE 29608290 U1 19960711 - SCHULTE GUENTER [DE]
- [X] KR 101289865 B1 20130724 - DONGIL ENGINEERING CONSULTANTS CO LTD [KR]
- [X] US 3362469 A 19680109 - ERLING BERNER, et al
- [X] WO 8202934 A1 19820902 - STICHTING ONTWIKKELING KOELTEC [NL], et al
- [X] JP S4815663 U 19730222
- [X] US 3215058 A 19651102 - ANDERSON GEORGE A M

Cited by  
CN110652221A; IT201600074823A1; WO2022055041A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2995877 A2 20160316; EP 2995877 A3 20160427**

DOCDB simple family (application)  
**EP 15184842 A 20150911**