

Title (en)  
Ventilation system with supplementary air injection for improved draught

Title (de)  
Belüftungssystem mit Lufteinspritzung für einen besseren Zug

Title (fr)  
Système de ventilation avec injection d'air supplémentaire pour l'aide au tirage

Publication  
**EP 0878672 B1 20040915 (FR)**

Application  
**EP 98401132 A 19980512**

Priority  
FR 9705855 A 19970513

Abstract (en)  
[origin: EP0878672A1] The system consists of a main vertical duct (4) with its upper end (4a) closed, its lower end (4b) connected to a source of air (5), and one or more lateral outlets (6). It also has at least one supplementary air injector (7) to increase the flow, situated towards the lower end of the duct. The system also incorporates an air extractor unit with a main vertical duct (41) which has its upper end (41a) situated above the building, and one or more extractor intakes (43) along its length. The extractor unit has an additional air injector (44) which is identical to the one used on the intake but is situated at the outlet end of the duct to increase the flow of air through it.

IPC 1-7  
**F24F 7/06**; **F24F 7/08**; **F24F 13/26**

IPC 8 full level  
**F24F 7/003** (2021.01); **F24F 7/06** (2006.01); **F24F 7/08** (2006.01); **F24F 13/26** (2006.01)

CPC (source: EP US)  
**F24F 7/003** (2021.01 - EP US); **F24F 7/06** (2013.01 - EP); **F24F 7/08** (2013.01 - EP); **F24F 13/26** (2013.01 - EP);  
**F24F 2007/004** (2013.01 - EP US)

Citation (examination)  
• US 3347147 A 19671017 - HOWARD BEN O  
• European Standard EN 13141-5 Ventilation for buildings Performance testing of components/products for residential ventilation Part 5: Cowls and roof outlet terminal devices  
• Norme française P50-413 Ventilation Conduits de ventilation naturelle et conduits de fumée Code d'essai et classement des extracteurs statiques

Cited by  
CN106288123A; CN113260792A; FR2926626A1; US9758320B2; WO2013140031A1; WO2009092976A3; WO2023214158A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FR GB IT LI LU NL PT

DOCDB simple family (publication)  
**EP 0878672 A1 19981118**; **EP 0878672 B1 20040915**; AT E276494 T1 20041015; DE 69826173 D1 20041021; FR 2763390 A1 19981120;  
FR 2763390 B1 19990723; HU 9801076 D0 19980728; HU P9801076 A1 19990528; PT 878672 E 20050131; RU 2196276 C2 20030110

DOCDB simple family (application)  
**EP 98401132 A 19980512**; AT 98401132 T 19980512; DE 69826173 T 19980512; FR 9705855 A 19970513; HU P9801076 A 19980512;  
PT 98401132 T 19980512; RU 98109351 A 19980512