

Title (en)
TUNNEL VENTILATING SYSTEM

Publication
EP 0205979 B1 19881012 (EN)

Application
EP 86107313 A 19860530

Priority
JP 12505685 A 19850611

Abstract (en)
[origin: EP0205979A1] A tunnel ventilating system for ventilating a highway tunnel (2) comprises a plurality of jet fans (6a, b, c, d) for drawing fresh air through the opposite portals of the highway tunnel into the highway tunnel and for causing the fresh air to flow toward a ventilating shaft (1), a plurality of ventilating fans (4a, b, c) for discharging the air in the highway tunnel through the ventilating shaft, and a controller (12) capable of determining necessary rate of ventilation on the basis of measured data representing the degree of contamination of the air in the highway tunnel and other factors indicating the conditions of the interior of the highway tunnel. The jet fans and the ventilating fans are assigned to first and second subsystems. The jet fans and the ventilating fans of the first subsystem are operated under on-off control mode, while the jet fans and the ventilating fans of the second subsystem are operated under variable rate control mode. Thus, the highway tunnel is always ventilated at the necessary rate of ventilation.

IPC 1-7
E21F 1/00

IPC 8 full level
E21F 1/00 (2006.01); **F24F 7/06** (2006.01)

CPC (source: EP)
E21F 1/003 (2013.01)

Cited by
US7527468B2; EP0260624A1; CN108374685A; DE10359540A1; EP0240713A1; EP1783323A1; NL1030372C2; US2011275302A1; US10495094B2; US11255332B2; US7179046B2; US7137775B2; US10641271B2; WO0036275A1; WO9114827A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0205979 A1 19861230; EP 0205979 B1 19881012; DE 3660933 D1 19881117; JP S61286500 A 19861217

DOCDB simple family (application)
EP 86107313 A 19860530; DE 3660933 T 19860530; JP 12505685 A 19850611