

Title (en)

Tunnel dust collecting system

Title (de)

System zum Auffangen von Staub im Tunnel

Title (fr)

Système de collecteur pour la poussière dans des tunnels

Publication

**EP 0410428 B1 19961009 (EN)**

Application

**EP 90114281 A 19900725**

Priority

- JP 19352389 A 19890726
- JP 21775189 A 19890824
- JP 21775389 A 19890824
- JP 21776089 A 19890824

Abstract (en)

[origin: EP0410428A2] Typically, in a tunnel dust collecting system comprising: a dust collecting chamber (2) formed in the upper space of a tunnel (1) with a ceiling board; electric dust collectors (3) arranged in the dust collecting chamber in such a manner that the dust collectors are shifted both longitudinally and laterally of the dust collecting chamber; and air blowers (4) provided in said dust collecting chamber at the air supplying end, the dust collectors except the first one closest to the air sucking end of the dust collecting chamber are set obliquely with respect to the longitudinal direction of the dust collecting chamber as if partially overlapped with one another when viewed from the air sucking end, whereby the contaminated air led in the dust collecting chamber is distributed uniformly to the dust collectors.

IPC 1-7

**E21F 1/00**

IPC 8 full level

**E21F 1/00** (2006.01); **E21F 5/20** (2006.01)

CPC (source: EP)

**E21F 1/003** (2013.01); **E21F 5/20** (2013.01)

Citation (examination)

& JP-A- 63 319072 (FUJI ELECTRIC) 27 December 1988,

Cited by

CN101906986A; US5722885A; CN104071241A; CN108979697A; CN102080558A; CN110741166A; CN116025406A; US11655712B2; WO9606313A1; WO2018203023A1

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DOCDB simple family (publication)

**EP 0410428 A2 19910130; EP 0410428 A3 19910828; EP 0410428 B1 19961009;** DE 69028818 D1 19961114; DE 69028818 T2 19970213; DE 69029277 D1 19970109; DE 69029277 T2 19970327; DE 69031600 D1 19971120; DE 69031600 T2 19980212; DE 69033378 D1 20000105; DE 69033378 T2 20000406; EP 0577153 A1 19940105; EP 0577153 B1 19961127; EP 0613994 A1 19940907; EP 0613994 B1 19971015; EP 0675263 A1 19951004; EP 0675263 B1 19991201

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