

Title (en)

Ceiling-embedded type air-conditioner with automatic filter cleaning

Title (de)

In die Decke eingebaute Klimaanlage mit automatischer Filterreinigung

Title (fr)

Climatiseur d'air encastré dans le plafond avec nettoyage automatique du filtre

Publication

EP 2141421 A1 20100106 (EN)

Application

EP 09250236 A 20090129

Priority

- JP 2008169829 A 20080630
- JP 2008250390 A 20080929

Abstract (en)

A ceiling-embedded type air-conditioner includes: a casing having an opening on a bottom face; an air blower provided in the casing; a decorative panel provided on the bottom face of the casing and having a suction opening for sucking air; and an automatic filter cleaning mechanism provided between the decorative panel and the air blower. The automatic filter cleaning mechanism includes: (1) a filter 12 for catching a floating object in the air sucked; (2) a filter guide 13 having a filter rail groove 21 of U-turn system; (3) a filter roller 14 for driving the filter 12; (4) a brush 15 for scraping off the floating object caught by the filter 12; (5) a comb 16 for scraping off the floating object scraped off by the brush 15; and (6) a dust box for containing the floating object scraped off by the brush 15 and the comb 16.

IPC 8 full level

F24F 1/0047 (2019.01); **B01D 46/10** (2006.01); **F24F 11/02** (2006.01); **F24F 13/28** (2006.01)

CPC (source: EP US)

F24F 1/0047 (2019.01 - EP US); **F24F 8/90** (2021.01 - EP); **F24F 13/28** (2013.01 - EP); **F24F 2013/0616** (2013.01 - EP)

Citation (search report)

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