

Title (en)
OUTDOOR UNIT OF AIR CONDITIONER

Title (de)
AUSSENEINHEIT FÜR KLIMAANLAGE

Title (fr)
UNITE EXTERIEURE DE CONDITIONNEUR D'AIR

Publication
EP 0884542 B1 20030507 (EN)

Application
EP 97911481 A 19971107

Priority
• JP 9704059 W 19971107
• JP 33544896 A 19961216

Abstract (en)
[origin: EP0884542A1] A sawtoothed portion 5 is provided in a front edge 3a of grille vanes 2a constituting an air outlet grille of an outdoor unit. Each crest 5a of the sawtoothed portion 5 is rounded at its tip. The height H of each crest of the sawtoothed portion 5 is set to a size of 0.05 to 0.25 times the length of the wing-shaped grille vane (chord length), and the crest-to-crest pitch S of the sawtoothed portion 5 is set to a size of 0.5 to 1.5 times the height H of each crest. As a result, there arise numerous longitudinal eddies from troughs 5b of the sawtoothed portion 5, so that an air flow of high flow rate at places away from the negative-pressure surface of the grille vanes 2a can be drawn near the negative-pressure surface. Thus, the flow on the negative-pressure surface side is unlikely to break away, and noise is reduced. <IMAGE>

IPC 1-7
F24F 13/08; **F24F 5/00**; **F24F 1/00**; **F24F 13/24**

IPC 8 full level
F24F 5/00 (2006.01); **F24F 1/40** (2011.01); **F24F 1/56** (2011.01); **F24F 13/08** (2006.01); **F24F 13/24** (2006.01)

CPC (source: EP KR)
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F24F 13/082 (2013.01 - EP)

Cited by
US2018206610A1; DE102012213930A1; US2015093983A1; US10197298B2; EP3492831A1; CN109849620A; US10383422B2; EP2508815A1; US10047972B2; US10203124B2; US10203150B2

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