Title (en)
SIROCCO FAN AND AIR CONDITIONER USING THE SAME

Title (de)
SIROCCO-LÜFTER UND DIESEN VERWENDENDE KLIMAANLAGE

Title (fr)
VENTILATEUR SIROCCO ET CLIMATISEUR L'UTILISANT

Publication
EP 2314880 B1 20130109 (EN)

Application
EP 08791016 A 20080710

Priority
JP 2008062442 W 20080710

Abstract (en)
[origin: EP2314880A1] To provide a sirocco fan configured to reduce a sound that is generated at a time when a predetermined amount of a blowing-out air volume is supplied, and an air-conditioning apparatus using the same. A sirocco fan 100 with respect to the present invention is characterized in that in the sirocco fan has a suction inlet 2a formed on an extension line of a rotation center of a fan 1 and on both side surfaces of a scroll casing 2, and in a case that a ventilation resistance in a air path 2c is defined as P[Pa], an amount of air sucked in from the suction inlet 2a is defined as Q[m 3 /min], a width in a direction of a rotation axis of the fan 1 is defined as L[mm], k is defined as a constant, a height of the scroll casing 2 is defined as H = 246k[mm], and P/Q 2 is defined as a loss coefficient ¾[Pa/(m 3 /min) 2], the equation: f(k 4 ¾) = 0.34947(k 4 ¾) 2 - 1.0554(k 4 ¾) + 1.8 is satisfied, and the inequality: 0.75f(k 4 ¾) #¤ L/H #¤ f(k 4 ¾) is satisfied within a range of 0.1 #¤ k 4 ¾ #¤0.4.

IPC 8 full level
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CPC (source: EP)
F04D 29/4213 (2013.01); **F04D 29/4226** (2013.01); **F04D 29/667** (2013.01)

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