

Title (en)  
VENTILATOR AND AIR CONDITIONER

Title (de)  
VENTILATOR UND KLIMAAANLAGE

Title (fr)  
VENTILATEUR ET DISPOSITIF D'AIR CONDITIONNE

Publication  
**EP 1455141 A4 20100224 (EN)**

Application  
**EP 02804343 A 20021021**

Priority  
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Abstract (en)  
[origin: EP1455141A1] The present invention provides an air conditioner that can send in outdoor air to an indoor space, and can effectively discharge indoor air to the outside. The air conditioner comprises an air supply and discharge line (7), a humidification fan (70), and a switching damper (90). The air supply and discharge line (7) connects an indoor space with an outdoor space. The fan (70) has an air intake port and an air discharge port. The switching means (90) can switch between a first and a second state. The first state is one in which the air discharge port of the humidification fan (70) communicates with the air supply and discharge line (7). The second state is one in which the air intake port of the humidification fan (70) communicates with the air supply and discharge line (7). <IMAGE>

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IPC 8 full level  
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Citation (search report)  
• [X] US 5314376 A 19940524 - KURAMAROHIT KULLAPAT [TH]  
• [X] JP H10274425 A 19981013 - DAIKIN IND LTD  
• [X] GB 1489461 A 19771019 - MILJATOR AB  
• [X] US 3653316 A 19720404 - MOLINE GEORGE A  
• [A] US 5230719 A 19930727 - BERNER ERLING [CH], et al  
• See references of WO 03048650A1

Cited by  
DE102017112269A1; EP2267374A4; EP3940308A1; US2015241084A1; CN104879905A; US9829212B2; US11619406B2

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