

Title (en)  
HUMIDIFIER REQUIRING NO FEED WATER

Title (de)  
BEFEUCHTUNGSVORRICHTUNG OHNE WASSERVERSORGUNG

Title (fr)  
HUMIDIFICATEUR NE NECESSITANT PAS D'EAU D'ALIMENTATION

Publication  
**EP 1304530 A1 20030423 (EN)**

Application  
**EP 01948036 A 20010717**

Priority  
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• JP 2000223717 A 20000725

Abstract (en)  
There is provided a humidifier without water supply, which enables sufficient cooling of a humidifying rotor and implements sufficient humidification even in the low-temperature and low-humid winter season. Into a cooling passage (21) running through a cooling area C, there flows cooling air cooled by passing an outdoor heat exchanger (22) of an air conditioner, by which a humidifying rotor (12) is cooled to extremely low temperature in the cooling area C. Cooling air is obtained by taking heat of evaporation out of the outside air with the outdoor heat exchanger (22) of an air conditioner, which makes it possible to obtain the cooling air without increased costs and energy. Since the humidifying rotor (12) cooled in the cooling area C is cooled with the air with extremely low temperature in the cooling area C, the humidifying rotor (12) can sufficiently collect moisture from the outside air even in the winter season when the outside air is in low temperature. A portion of the humidifying rotor (12) that sufficiently collected moisture discharges the moisture to high-temperature heated air in a humidifying area. <IMAGE>

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IPC 8 full level  
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