

Title (en)  
Air jet device

Title (de)  
Anblasvorrichtung

Title (fr)  
Dispositif de soufflage d'air

Publication  
**EP 1754550 B1 20090520 (DE)**

Application  
**EP 06119035 A 20060816**

Priority  
AT 5612005 U 20050817

Abstract (en)  
[origin: US2007056887A1] A device for blowing against individual pieces of a material flow conveyed via a freefall path or a link conveyor using a gaseous or liquid medium, comprising at least one connection opening ( 9 ) for the gaseous or liquid medium, as well as multiple blowing nozzles ( 16 ), via which the gaseous or liquid medium is blown in a controlled way on predetermined individual pieces of the material flow, as well as valves, preferably solenoid valves, assigned to the blowing nozzles ( 16 ), through which the blowing procedure is triggered and stopped, a flow channel being provided between each blowing nozzle ( 16 ) and the valve seat ( 19 ) of the valve assigned to a blowing nozzle ( 16 ), which only causes a single deflection of the gaseous or liquid medium. In order to allow optimum positioning of the valves and keep the pressure loss low, the valve plunger ( 5 ) of the valve is situated essentially perpendicularly to the blowing nozzle ( 16 ) or encloses an acute angle alpha with the axis of the blowing nozzle ( 16 ).

IPC 8 full level  
**B07C 5/36** (2006.01); **F16K 27/00** (2006.01); **F16K 31/06** (2006.01)

CPC (source: EP US)  
**B07C 5/368** (2013.01 - EP US); **F15B 13/0807** (2013.01 - EP US); **F15B 13/0842** (2013.01 - EP US)

Cited by  
ITTO20130154A1; CN105521954A; WO2014108445A1; WO2014128683A3; EP2821677A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**US 2007056887 A1 20070315**; AT 8634 U1 20061015; AT E431761 T1 20090615; AU 2006203421 A1 20070308; AU 2006203421 B2 20110414; DE 502006003763 D1 20090702; EP 1754550 A1 20070221; EP 1754550 B1 20090520; ES 2327670 T3 20091102

DOCDB simple family (application)  
**US 50501606 A 20060816**; AT 06119035 T 20060816; AT 5612005 U 20050817; AU 2006203421 A 20060808; DE 502006003763 T 20060816; EP 06119035 A 20060816; ES 06119035 T 20060816