

Title (en)  
AIR INLET

Title (de)  
LUFTEINLASS

Title (fr)  
ENTRÉE D'AIR

Publication  
**EP 2847518 A4 20160323 (EN)**

Application  
**EP 13772941 A 20130402**

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Abstract (en)  
[origin: WO2013149620A1] The present invention relates to an Air inlet primarily for an outdoor application for cooling air, which air inlet has an outdoor inlet and an indoor outlet, which air inlet comprises means for preventing water drops passing the inlet. It is the object of the pending application to disclose an air inlet for an outdoor installation. The object can be achieved by an air inlet if the longitudinal channels are placed vertically, which channels comprises a first open inlet channel, which inlet channel continues into a second channel, which, second channel continues into a third channel, which third channel continues into the fourth outlet channel. Hereby it can be achieved that the air inlet is able to reject water droplets because water droplets have a mass considerably higher than the mass of the air molecules. The air molecules are able to turn the direction of movement but the air droplets contained in the air will hit mostly the wall of the second channel where the air stream at first is forced to change the direction 90 degrees. Most of the water drops continue directly into the wall where the droplets form a splash-out on the wall and gravity forces the water to fall downwards at the flange that has received the droplets.

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Citation (search report)  
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• See references of WO 2013149620A1

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