

Title (en)
A SHUTTER FOR FAN

Title (de)
BLENDE FÜR EINEN VENTILATOR

Title (fr)
TABLIER POUR VENTILATEUR

Publication
EP 3321509 B1 20190807 (EN)

Application
EP 16425104 A 20161110

Priority
EP 16425104 A 20161110

Abstract (en)
[origin: EP3321509A1] Fan shutter, comprising a frame (11), a plurality of blades (21, 23) hinged to the frame (11) and rotatable between an open configuration and a closed configuration of a passage, wherein the plurality of blades (21, 23) is able to assume the open configuration due to the direct effect of an air flow between the inlet and the outlet of the passage, and an elastic return element (81) connected both to the frame (11) and to the plurality of blades (21, 23). The plurality of blades (21, 23) comprises an upper blade array (21) and a lower blade array (23), the upper blades (21) being interconnected so as to simultaneously rotate in the same direction of rotation and being pivoted in such a way as to tend, due to gravity, to assume the passage's closed configuration, and the lower blades (23) being interconnected so as to rotate simultaneously in the same direction of rotation and being pivoted in such a way as to tend, by gravity, to assume the passage's open configuration. A drive (61, 63) is furthermore provided, which connects the upper blade array (21) to the lower blade array (23) in such a way that the two blade arrays (21, 23) are opposite the direction of rotation and the tendency of the upper blades (21) to assume the closed configuration of the passage is countered by the tendency of the lower blades (23) to assume the open configuration of the passage. The return element (81) is connected to the lower blade array (23) and is arranged in such a way as to apply on the blade array (23) a moment of elastic return force that is at its maximum in the closed configuration and at its minimum in the open configuration.

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