

Title (en)  
VACUUM LOCK

Title (de)  
VAKUUMSCHLEUSE

Title (fr)  
SAS A VIDE

Publication  
**EP 1778391 A1 20070502 (DE)**

Application  
**EP 05759680 A 20050719**

Priority  
• CH 2005000421 W 20050719  
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Abstract (en)  
[origin: US2006033061A1] A vacuum lock on a vacuum chamber has a lockable gate opening with a substantially vertical gate and the following characteristics: the gate is a sliding plate displaceable parallel to the opening; the gate is connected via a driving rod on a side oppose the opening and is supported at a distance in the sliding direction; this connection is via a guidance mechanism such that in the presence of a blockage of the closing process, the gate is laterally pressed on a seal encompassing the opening; and a spring element is provided to narrowly compensates the weight of the gate. This ensures that in the event of a operator error or unintentional reaching into the opening during a closing process, injuries cannot occur and a high degree of safety is ensured.

IPC 8 full level  
**B01J 3/03** (2006.01); **B01L 1/02** (2006.01); **F16J 13/24** (2006.01)

CPC (source: EP KR US)  
**B01J 3/03** (2013.01 - EP KR US); **B01L 1/02** (2013.01 - KR); **F16J 13/22** (2013.01 - EP US); **F16J 13/24** (2013.01 - EP KR US); **F16K 3/182** (2013.01 - EP US); **F16K 3/184** (2013.01 - EP US); **H01L 21/67126** (2013.01 - EP US); **B01L 1/02** (2013.01 - EP US)

Citation (search report)  
See references of WO 2006015505A1

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DOCDB simple family (publication)  
**US 2006033061 A1 20060216**; BR PI0514321 A 20080610; CA 2576367 A1 20060216; CN 101014406 A 20070808; CN 101014406 B 20110713; EP 1778391 A1 20070502; JP 2008509359 A 20080327; KR 101186715 B1 20120927; KR 20070074548 A 20070712; TW 200606321 A 20060216; TW I390102 B 20130321; WO 2006015505 A1 20060216; WO 2006015505 A8 20070222

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