

Title (en)  
GAS SEPARATION DEVICE

Title (de)  
GASTRENNVORRICHTUNG

Title (fr)  
DISPOSITIF DE SÉPARATION DE GAZ

Publication  
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Application  
**EP 11767019 A 20111010**

Priority  
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Abstract (en)  
[origin: WO2012049128A2] The invention relates to a gas separation device (1), comprising a gas separation layer (20), a first gas volume (14), and a second gas volume (15), wherein the gas separation layer (20) is arranged between the first gas volume (14) and the second gas volume (15), wherein the gas separation layer (20) comprises at least one aperture (22) which connects the first gas volume (14) to the second gas volume (15), wherein the aperture (22) is designed to taper from the first gas volume (14) to the second gas volume (15) and is dimensioned to enrich a component (30) of the second gas volume (15) in the first gas volume (14), wherein the aperture (22) is designed as an elongated opening in the gas separation layer (20) and/or comprises a gas reflection layer (22) on a surface (33), wherein the aperture (22) has a minimum opening width (d) of essentially one time to twenty times the mean free path length of the component (30) of the second gas volume (15) to be enriched.

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