

Title (en)  
METHOD FOR TREATING A MOIST GAS STREAM

Title (de)  
VERFAHREN ZUR BEHANDLUNG EINES FEUCHTEN GASSTROMES

Title (fr)  
PROCEDE DE TRAITEMENT D'UNE VEINE GAZEUSE MOUILLEE

Publication  
**EP 1073866 A1 20010207 (EN)**

Application  
**EP 99916077 A 19990421**

Priority  

- NL 9900229 W 19990421
- NL 1008947 A 19980421
- NL 1010959 A 19990105

Abstract (en)  
[origin: WO9954667A1] Method, and apparatus, for treating a moist gas stream and improving the efficiency of combustion plants and air conditioning plants, comprising: in an absorption plant (2), loading a recirculating sorbent with moisture from the moist gas stream; absorbing heat from the recirculating sorbent in a first heat exchanger (3), which is connected in a cycle with the absorption plant (2); supplying a part of the moisture-loaded sorbent to a regeneration plant (5) for the sorbent, in which, using heat, the sorbent is regenerated, thereby forming steam; recycling the regenerated sorbent to the absorption plant (2); while the steam can be utilized for recovering water and the recovered water or steam can be used in fuel-reforming processes for a fuel cell.

IPC 1-7  
**F24F 3/14**; **F24H 4/02**

IPC 8 full level  
**F24F 3/14** (2006.01); **F24H 4/02** (2006.01); **H01M 8/04** (2006.01); **H01M 8/06** (2006.01)

CPC (source: EP US)  
**F24F 3/1417** (2013.01 - EP); **F24H 4/02** (2013.01 - EP US); **H01M 8/04156** (2013.01 - EP); **F24F 2003/144** (2013.01 - EP); **H01M 8/0612** (2013.01 - EP); **Y02E 60/50** (2013.01 - EP)

Citation (search report)  
See references of WO 9954667A1

Cited by  
CN112539558A

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 9954667 A1 19991028**; AU 3445399 A 19991108; EP 1073866 A1 20010207; NL 1010959 C1 19991022

DOCDB simple family (application)  
**NL 9900229 W 19990421**; AU 3445399 A 19990421; EP 99916077 A 19990421; NL 1010959 A 19990105