

Title (en)  
CLEANING DEVICE, USE AND METHOD FOR CLEANING

Title (de)  
VORRICHTUNG ZUR REINIGUNG, VERWENDUNG UND VERFAHREN ZUR REINIGUNG

Title (fr)  
DISPOSITIF DE LAVAGE, UTILISATION ET PROCÉDÉ DE LAVAGE

Publication  
**EP 4240512 A1 20230913 (DE)**

Application  
**EP 21827580 A 20211104**

Priority  
• DE 102020006767 A 20201104  
• DE 2021000182 W 20211104

Abstract (en)  
[origin: WO2022096049A1] The invention relates to a device for cleaning an exhaust gas mixture volume flow, more particularly comprising solvents, more particularly organic solvents, more particularly NMR (N-methylpyrrolidone), for use in a continuous cyclical cleaning process, comprising: a main cleaning stage and a fine cleaning stage, wherein, following the main cleaning stage, the exhaust gas mixture volume flow can be split by means of a splitting means into a main volume flow, which is to be guided back to a point upstream of the main cleaning stage, more particularly upstream of an upstream drying unit particularly for coated cathode materials, and a secondary volume flow, which is to be guided through a fine cleaning stage, wherein the main cleaning stage comprises at least one condensate cleaner, wherein the fine cleaning stage comprises at least two adsorption wheels, particularly two-stage adsorption wheels, configured for the adsorption of solvent, particularly NMR, which are arranged one after the other in series, wherein an output flow from the fine cleaning stage is to be guided via a return line, particularly back to a point upstream of the main cleaning stage.

IPC 8 full level  
**B01D 53/00** (2006.01); **B01D 53/06** (2006.01); **B01D 53/26** (2006.01)

CPC (source: EP)  
**B01D 53/002** (2013.01); **B01D 53/06** (2013.01); **B01D 53/26** (2013.01); **B01D 2253/108** (2013.01); **B01D 2257/704** (2013.01)

Citation (search report)  
See references of WO 2022096049A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022096049 A1 20220512**; DE 102020006767 A1 20220505; DE 112021005789 A5 20240229; EP 4240512 A1 20230913

DOCDB simple family (application)  
**DE 2021000182 W 20211104**; DE 102020006767 A 20201104; DE 112021005789 T 20211104; EP 21827580 A 20211104