

Title (en)

DEVICE AND METHOD FOR TESTING CATALYSTS WITH VARIABLE PROCESS PRESSURE ADJUSTMENT

Title (de)

VORRICHTUNG UND VERFAHREN ZUR UNTERSUCHUNG VON KATALYSATOREN MIT VARIABLER PROZESSDRUCKEINSTELLUNG

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR ANALYSER DES CATALYSEURS PAR RÉGLAGE VARIABLE DE LA PRESSION DE TRAITEMENT

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Application

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Abstract (en)

[origin: WO2012052149A2] The present invention relates to a catalysis apparatus for testing catalysts with variable process pressure adjustment over a pressure range from 0.01 millibar to 300 bar. The device preferably has a multiplicity of reaction chambers (101, 102,...) which are arranged in parallel and the lines (211, 212,...) thereof at the reaction chamber outlet side are divided into two groups of sub-lines. One group of main lines (411, 412,...) is operatively connected to a regulating valve (61), which is common to all main lines, and to an exhaust air line (62), and the second group of secondary lines (311, 312, 313,...) and switching valves (321, 322,...) is operatively connected to an analysis unit (34). It is preferable for lines (201, 202,...) at the reaction chamber outlet side to be equipped in each case with a separate line for a supply of regulating fluid (211, 212,...). In a preferred embodiment, the connecting points of the lines (201, 202,...) at the reaction chamber outlet side to the respective main lines (411, 412,...) and secondary lines (311, 312,...) have in each case one mixing vessel (301, 302,...).

IPC 8 full level

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