

Title (en)  
RADIATION ACTIVATION AND SCREENING OF CATALYST LIBRARIES FOR CATALYST EVALUATION AND REACTORS THEREFOR

Title (de)  
SCREENING VON KATALYSATORBIBLIOTHEKEN FÜR KATALYSATORAUSWERTUNG DURCH STRAHLUNGSAKTIVIERUNG UND REAKTOREN DAFÜR

Title (fr)  
ACTIVATION DE RAYONNEMENT ET CRIBLAGE DE BIBLIOTHEQUES DE CATALYSEURS PERMETTANT D'EVALUER UN CATALYSEUR ET REACTEURS CORRESPONDANTS

Publication  
**EP 1019713 A1 20000719 (EN)**

Application  
**EP 98947652 A 19981008**

Priority

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Abstract (en)  
[origin: WO9919724A1] Rapid screening for activities and selectivities of catalyst libraries having addressable test sites is achieved by contacting potential catalysts at the test sites with reactant streams forming product plumes at the addressable test sites. The product plumes are screened by passing a radiation beam of an energy level to promote formation of specified photoions and photoelectrons which are detected by microelectrode collection in situ in proximity to the respective addressable test site. Product plumes may be screened row by row or all product plumes emanating from an entire catalyst library may be simultaneously screened. Suitable reactors and microreactors for radiation activation screening are disclosed.

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IPC 8 full level  
**B01J 19/00** (2006.01); **G01N 31/10** (2006.01); **G01N 33/00** (2006.01); **G01N 37/00** (2006.01); **C40B 30/08** (2006.01); **C40B 40/18** (2006.01); **C40B 60/14** (2006.01)

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