

Title (en)
REMOVAL OF ARSENIC FROM FLUE-GAS

Title (de)
ENTFERNUNG VON ARSEN AUS RAUCHGAS

Title (fr)
ÉLIMINATION DE L'ARSENIC DES GAZ DE COMBUSTION

Publication
EP 3548163 A1 20191009 (EN)

Application
EP 17808482 A 20171205

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• EP 16202195 A 20161205
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Abstract (en)
[origin: WO2018104257A1] The divulged invention concerns a process for the removal of arsenic oxides in process exhaust gases, comprising the step of passing the exhaust gases through a supported ionic liquid phase bed, characterized in that the ionic liquid comprises one or more cations from the list consisting of substituted phosphonium, ammonium, imidazolium, pyrrolidinium, and pyridinium, and one or more anions from the list consisting of chloride, bromide, and carboxylate. Compared to a bed of active carbon, the ionic liquid soaked active carbon bed according to the invention allows for an estimated doubling of the arsenic adsorption capacity of the bed, while also considerably enhancing the kinetics of adsorption.

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Citation (search report)
See references of WO 2018104257A1

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