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(54) Title (EN): A PROCESS FOR TREATMENT OF SPENT IONIC LIQUIDS

(54) Title (FR): PROCÉDÉ DE TRAITEMENT DE LIQUIDES IONIQUES USAGÉS

(57) Abstract:

(EN): The present disclosure provides a process for treatment a spent ionic liquid, comprising: mixing the spent ionic liquid with a first fluid medium and water to obtain slurry comprising 5 a solid fraction and a liquid fraction; separating the solid fraction from slurry to obtain a filtrate and a residue comprising hydrated ionic solids; followed by drying the residue comprising the hydrated ionic solids at a temperature in the range of 60 °C to 120 °C to obtain treated ionic solids; and evaporating the filtrate to recover the fluid medium. The process of the present disclosure further comprises a step of contacting the treated ionic solids with at 0 least one second fluid medium to separate an active ionic liquid.

(FR): La présente invention concerne un procédé de traitement d'un liquide ionique usagé, comprenant : le mélange du liquide ionique usagé avec un premier milieu fluide et de l'eau pour obtenir une suspension comprenant une fraction solide et une fraction liquide; la séparation de la fraction solide de la suspension pour obtenir un filtrat et un résidu comprenant des solides ioniques hydratés; suivie par le séchage du résidu comprenant les solides ioniques hydratés à une température dans la plage de 60 °C à 120 °C pour obtenir des solides ioniques traités; et l'évaporation du filtrat pour récupérer le milieu fluide. Le procédé de la présente invention comprend en outre une étape de mise en contact des solides ioniques traités avec au moins un second milieu fluide pour séparer un liquide ionique actif.

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Declaration made as to the identity of the inventor (PCT Rules 4.17(i) and 51bis.1(a)(i))

Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America