

Title (en)

PROCESS FOR OBTAINING TEREPHTHALIC ACID AND RECOVERING SODIUM HYDROXIDE FROM A SODIUM TEREPHTHALATE SOLUTION PRODUCED FROM REUSED POLYETHYLENE TEREPHTHALATE (PET)

Title (de)

VERFAHREN ZUR GEWINNUNG VON TEREPHTHALSÄURE UND RÜCKGEWINNUNG VON NATRIUMHYDROXID AUS EINER NATRIUMTEREPHTHALATLÖSUNG AUS WIEDERVERWENDETEM POLYETHYLENTEREPHTHALAT (PET)

Title (fr)

PROCÉDÉ POUR L'OBTENTION D'ACIDE TÉRÉPHTALIQUE ET RÉCUPÉRATION D'HYDROXYDE DE SODIUM D'UNE SOLUTION DE TÉRÉPHTALATE DE SODIUM PRODUIT À PARTIR DE POLYÉTHYLÈNE TÉRÉPHTALATE (PET) DE RÉUTILISATION

Publication

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Application

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Priority

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Abstract (en)

A process for obtaining terephthalic acid and recovering sodium hydroxide from a sodium terephthalate solution produced from reused PET, which includes the following steps: i) placing a sodium terephthalate solution obtained from a PET hydrolysis process on the anodic side; ii) placing an alcoholic medium on the cathodic side of the electrolytic cell; iii) applying an electric current that circulates through the anodic side and the cathodic side of the electrolytic cell and; iv) recovering terephthalic acid and sodium hydroxide. The method has been designed to not generate the by-products generated in the PET recycling process, and thus have a "green" process. Furthermore, the method described does not require large amounts of water or energy.

IPC 8 full level

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