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1. (WO1998057898) A PROCESS AND A PLANT FOR TREATMENT OF LANDFILL LEACHATES

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Priority Data:

Title (EN) A PROCESS AND A PLANT FOR TREATMENT OF LANDFILL LEACHATES
 (FR) PROCEDE ET INSTALLATION PERMETTANT DE TRAITER LES LIXIVIATS DE DECHARGES

Abstract: (EN) Leachates from sanitary landfills and waste water liquid in general are depurated and converted into clear water (19), ammonium sulphate (24) and polluted mud by gradually heating the liquid, raising its pH (5) to precipitate heavy metals (6), stripping ammonia (7), lowering the pH by treatment with CaCl₂ (8), neutralising and precipitating further metals and impurities (14), and evaporating (17; 18; 15; 27) the water into steam that is condensed while gradually heating the incoming liquid.

(FR) Cette invention concerne un procédé et une installation qui permettent d'épurer les lixiviats de décharges sanitaires ainsi que les liquides de type eaux usées en général, et de les transformer en eau pure (19), en sulfate d'ammonium (24) et en boues polluées. Ce procédé comprend les étapes suivantes: chauffer progressivement le liquide; augmenter son pH (5) de manière à précipiter les métaux lourds (6); éliminer l'ammoniac (7); abaisser le pH par un traitement au CaCl₂ (8); neutraliser et précipiter les autres métaux et impuretés (14); et enfin, faire évaporer (17; 18; 15; 27) l'eau sous forme de vapeur qui va se condenser tout en chauffant progressivement le liquide entrant.



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