

Title (en)

Process for the treatment and conditioning of solid or liquid effluents charged with heavy metals

Title (de)

Verfahren zur Behandlung und Konditionierung von schwermetallhaltigen Suspensionen und Flüssigkeiten

Title (fr)

Procédé de traitement et de conditionnement d'effluents solides ou liquides chargés en métaux lourds

Publication

EP 0687483 A1 19951220 (FR)

Application

EP 95401367 A 19950613

Priority

FR 9407297 A 19940615

Abstract (en)

Processing of solid or liq. effluents contg. heavy metals comprises: (a) treating a liq. effluent or liq. extract of a solid effluent with a reducing agent to obtain a process soln.; (b) contacting the process soln. with a solvent in a first extraction vessel, where the solvent is capable of selectively extracting heavy metals, anions and alkali(ne earth)metals and comprises an organophosphorus extractant and a hydrocarbon; (c) passing the organic phase from (b) to a second extraction vessel and contacting it with an aq. soln. capable of extracting heavy metals from the organic phase; (d) contacting the aq. phase from (c) with a pptn. capable of precipitating. all the heavy metals in the form of insoluble and vitrifiable chemical species; (e) filtering off the ppte. and washing it with water; (f) recycling the filtrate from (e) for addn. to the process soln. from (a); and (g) vitrifying the ppte. from (e).

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Citation (applicant)

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- US 5041398 A 19910820 - KAUSER DENNIS E [US], et al

Citation (search report)

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- [A] EP 0409140 A1 19910123 - COLTEC IND INC [US]
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- [A] DATABASE WPI Week 8619, Derwent World Patents Index; AN 86-122389

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FR2760662A1; FR2760663A1; WO9921619A1

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