

Title (en)
Process for the purification of mercury.

Title (de)
Quecksilberreinigungsverfahren.

Title (fr)
Procédé de purification de mercure.

Publication
EP 0148023 A2 19850710 (EN)

Application
EP 84309076 A 19841221

Priority
IT 2443983 A 19831230

Abstract (en)
A process for the purification of mercury from the metal impurities contained therein, wherein the mercury is contacted with an aqueous solution, characterized in that the mercury and the aqueous solution are loaded into reactor (1) in the upper part (2) of which there is present a gas. The mercury and the aqueous solution are circulated by means of a pump (11) installed in an external recirculation circuit (8,9,10), which pump draws the liquid phases from the bottom of the reactor and sends them back into the reactor through a nozzle (3) or a liquid-gas ejector (3,4) arranged in the upper part (2) of the reactor. As a consequence of the dynamic-flow conditions thus created, the mercury is dispersed in the aqueous phase in the form of minute droplets and is intensely mixed with the aqueous phase, and as a result the impurities pass into the aqueous phase. Thereby there is achieved an effective removal of the impurities from the mercury.

IPC 1-7
C22B 43/00

IPC 8 full level
C22B 43/00 (2006.01)

CPC (source: EP)
C22B 43/00 (2013.01)

Cited by
US6514396B1; WO9928738A1; WO0246717A3

Designated contracting state (EPC)
BE DE FR GB NL

DOCDB simple family (publication)
EP 0148023 A2 19850710; EP 0148023 A3 19851121; EP 0148023 B1 19890315; DE 3477205 D1 19890420; ES 539137 A0 19870801; ES 8707568 A1 19870801; IT 1170081 B 19870603; IT 8324439 A0 19831230

DOCDB simple family (application)
EP 84309076 A 19841221; DE 3477205 T 19841221; ES 539137 A 19841228; IT 2443983 A 19831230