

**148: 412923q Electrochemical process for the recovery of metallic iron and chlorine values from iron-rich metal chloride wastes.** Cardarelli, Francois (Qit-Fer & Titane Inc., Can.) **PCT Int. Appl. WO 2008 34,212** (Cl. C25C1/06), 27 Mar 2008, US Appl. 2006/PV826,453, 21 Sep 2006; 68pp. (Eng). An electrochem. process for the concurrent recovery of iron metal and chlorine gas from an iron-rich metal chloride soln., comprising electrolyzing the iron-rich metal chloride soln. in an electrolyzer comprising a cathodic compartment equipped with a cathode having a hydrogen overpotential higher than that of iron and contg. a catholyte having a pH below about 2, an anodic compartment equipped with an anode and contg. an anolyte, and a separator allowing for anion passage, the electrolyzing step comprising circulating the iron-rich metal chloride soln. in a non-anodic compartment of the electrolyzer, thereby causing iron to be electrodeposited at the cathode and chlorine gas to evolve at the anode, and leaving an iron-depleted soln. The iron-rich metal chloride soln. may originate from carbo-chlorination wastes, spent acid leaching liquors or pickling liquors.