

The invention relates to the field of reprocessing the gold-containing polymetallic materials with the purpose of isolating gold, particularly to a method for extracting the gold from its alloys with other mainly imperfect metals. According to the invention the material to be processed, previously melt and founded, is used as anode, and electrochemical dissolving and subsequent deposition of the metals admixtures on cathode are carried out with isolation of gold in the form of anode residue. At that the gold content in anode within 5-50 % of volume is provided, and the electrolysis process being carried out in the aqueous solvent of acid and/or salt with anion of NO_3^- or SO_4^{2-} at total anion concentration of 100 - 250 g-ion/l, anode current density of 1200 - 2500 A/m² and voltage on bath of 5-12 V. The invention allows to simplify the process and gives an opportunity to reach high indices of extraction degree and purity of the produced gold.