

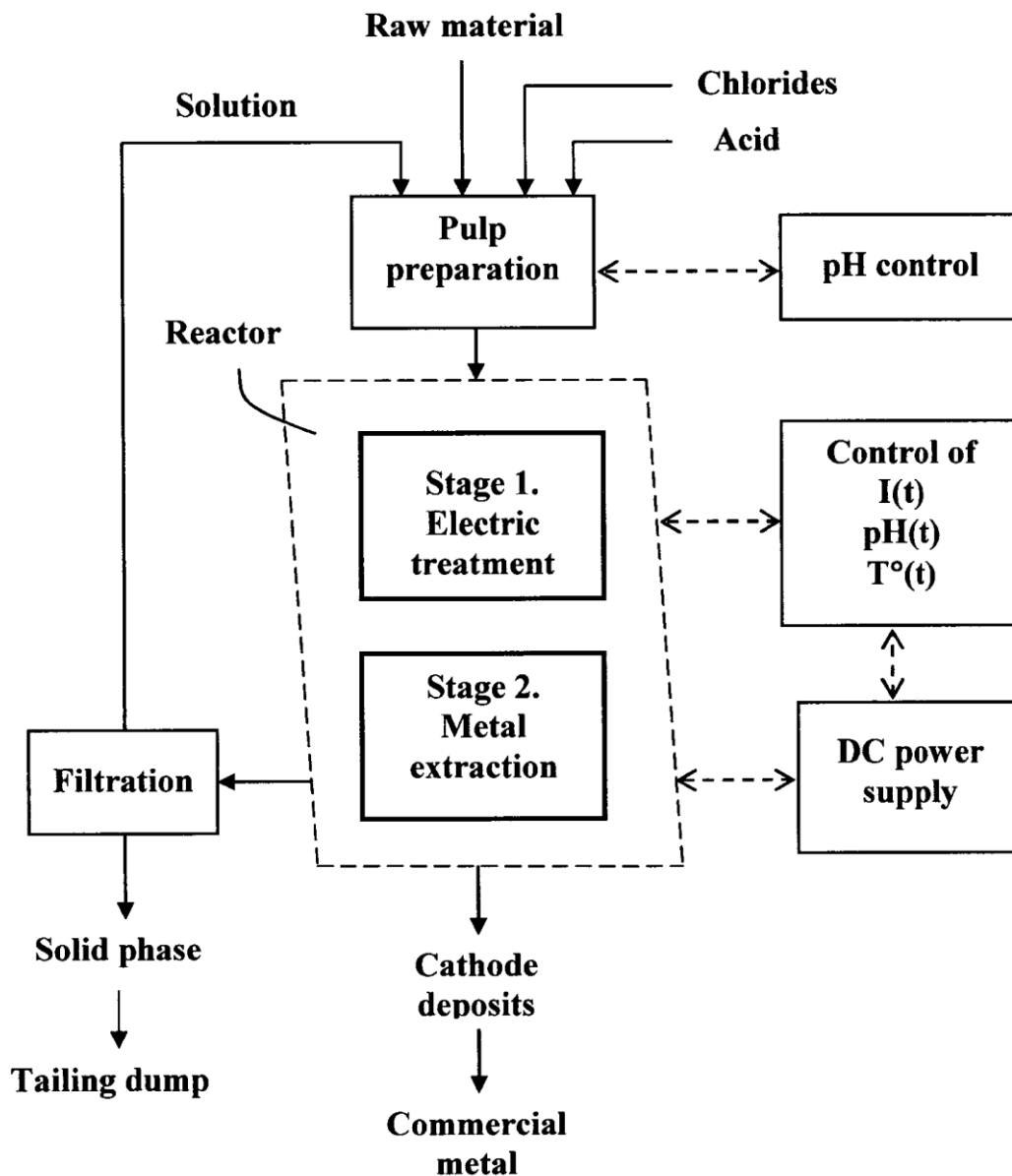


FIG. 1

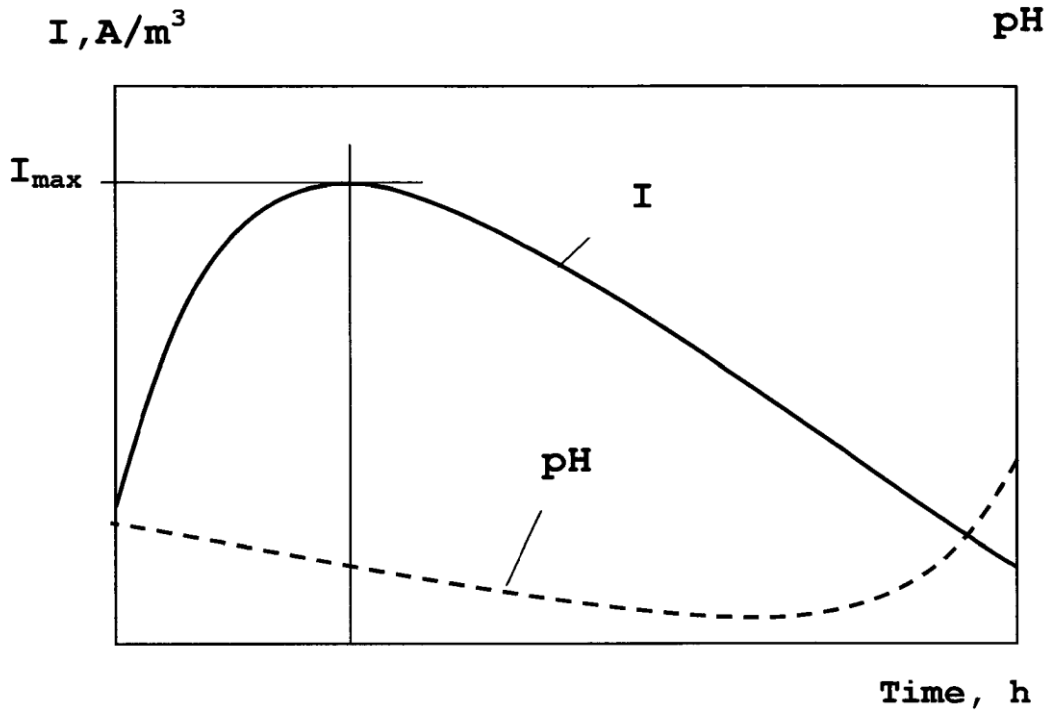


FIG. 2

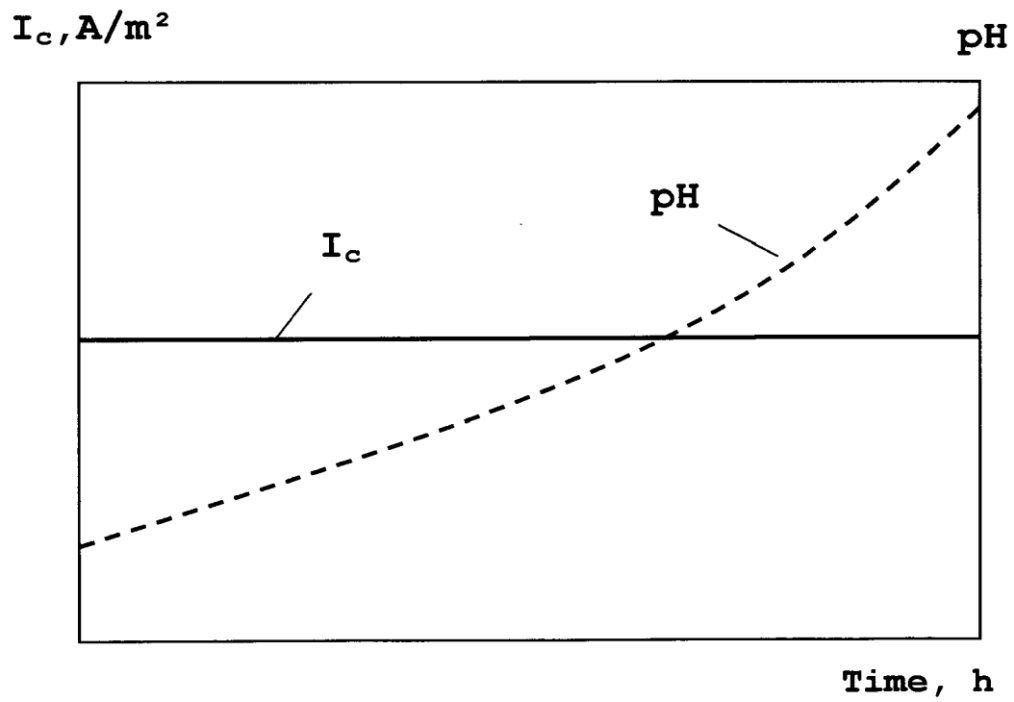


FIG. 3

AMIT ASWAL
OF ANOVIP
AGENT FOR THE APPLICANT

F O R M 2

**THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003**

**COMPLETE SPECIFICATION
(See section 10 and rule 13)**

1. TITLE OF THE INVENTION

“METHOD FOR EXTRACTING NOBLE METALS FROM REFRACTORY RAW MATERIALS”

2. APPLICANT

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3. PREAMBLE TO THE DESCRIPTION

COMPLETE

The following specification particularly describes the invention and the manner in which it is to be performed.

4. Method according to claim 1, wherein the undivided electrolyser has metallic cathodes and anodes made of graphite or of a material based on oxides of ruthenium and titanium.
- 5 5. Method according to claim 1, wherein the reactor contains independent electrolyzers for the pulp electric treatment stage and the metal extraction stage, the electrolyzers are equipped with means for pulp stirring and with dismountable cathodes.
- 10 6. Method according to claim 1, wherein the reactor contains an electrolyser with dismountable cathodes and a selector to switch between the pulp electric treatment stage and the metals extraction stage.
- 15 7. Method according to claim 1, wherein the chloride solution is selected from the group of chloride solutions containing NaCl, KCl, CaCl₂ and MgCl₂.
8. Method according to claim 1, wherein pulp is acidified with hydrochloric acid.
- 20 9. Method according to claim 1, wherein the electric treatment stage is carried out at temperatures above 60°C, predominantly in the range 60–90°C, and the extraction stage is carried out at temperatures in the range 20–50°C.
- 25 10. Method according to claim 1, wherein for refractory raw material containing natural sorbents the above stages of the process are carried out at temperatures above 60°C, predominantly in the range 60–90°C.
11. Method according to claim 1, wherein cathode deposits are separated mechanically or chemically.

Dated this 12th day of February 2015

Signature
Name of the signatory



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