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(57) Abstract :

This invention relates to an integrated process for copper extraction from waste printed circuit boards (WPCBs) comprising the steps of converting WPCBs to a powder and adding the powder to an alcohol and introducing the mixture into high-pressure reactor for supercritical methanol pre-treatment. This is followed by cooling and filtering the mixture to obtain a solid residue T-WPCBs, removing the alcohol from the T-WPCB to obtain metal enriched T-WPCBs and subjecting the metal-enriched T-WPCBs to subsequent leaching with glycine and hydrogen peroxide, maintaining an initial pH of 10, to obtain copper in the leachate. Fig. 1

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