Title (en)

METHOD AND DEVICE FOR OPERATING MILLING BATHS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM BETREIBEN VON FRÄSBÄDERN

Title (fr)

PROCEDE ET DISPOSITIF POUR L'EXPLOITATION DE BAINS DE FRAISAGE

Publication

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Application

EP 98916915 A 19980311

Priority

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- EP 9801388 W 19980311

Abstract (en)

[origin: DE19710563A1] The invention concerns a method of operating a milling bath (10) wherein a metal workpiece to be milled is immersed in a milling bath (10) containing a milling medium, the metal oxidizing owing to a chemical reaction between the metal and milling medium and being transformed into a soluble complex. The resultant mixture is subjected to a separation process which separates the excess milling medium from the complex, the recovered milling medium being used for the further operation of milling baths and the complex being subjected to a preparation process. According to the invention, a mixture of dissolved complexed metallic ions and milling medium is removed from the milling bath at a concentration of dissolved complexed metallic ions which is far below the saturation limit thereof. The separation process is a nanofiltration process in which the milling medium is separated from the mixture according to the principle of reverse osmosis, the residue simultaneously being concentrated with complexed metallic ions.

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IPC 8 full level

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