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(54) Title: METHOD AND DEVICE FOR EXTRACTING ADDITIVES FROM PLASTIC-BASED MATERIAL

(57) Abstract: The present invention concerns a method for extracting an additive from a material containing a polymer matrix and said additive comprising the steps of a) bringing into contact said material with a pressurized dense fluid in a device at a temperature T and a pressure p at which said pressurized dense fluid is saturated with said additive and b) creating in said device either a temperature gradient or a pressure gradient whereby said device presents a gradient of solubility of said additive with a zone of minimum solubility in which said additive precipitates or crystallizes and a zone of maximum solubility containing said material depleted in said additive, step a) and step b) being performed simultaneously or one after the other one. The present invention also concerns a multi-vessel device implemented during this extraction method.



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