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INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

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(57) Abstract :

A method of an extraction of cellulose acetate (CA) from a processed cigarette filter waste (PCFW) 100 comprising: collecting and adding processed cigarette filter waste (PCFW) to a 250 ml beaker (101); washing the PCFW in a 100 ml hot water maintained at a 50 °C and removing the floating paper from the beaker (102); washing the PCFW in a 100 ml of water maintained at 25 °C for 30 minutes and removing the remaining floating paper from the beaker (103); rinsing the washed PCFW twice in a 100 ml absolute ethanol to eliminate other constituents of the PCFW (104); treating the rinsed PCFW with a mixture of acetone and ethyl acetate to obtain a suspension (105); adding distilled water drop by drop to the suspension to obtain a white precipitate of cellulose acetate (106); filtering the white precipitate of cellulose acetate from the solution and drying in a hot air oven at 80 °C to obtain a sample of a cellulose acetate (107); and checking a weight of sample of cellulose acetate after each hour to record the loss followed by packing the sample (108), wherein the extraction of cellulose acetate (CA) from a PCFW to handle waste PCFW in the form of fibers, sheets, rods or any other loose and held forms thus partially eliminating the use of fresh cellulose. << FIG. 1 >>

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