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Application Details

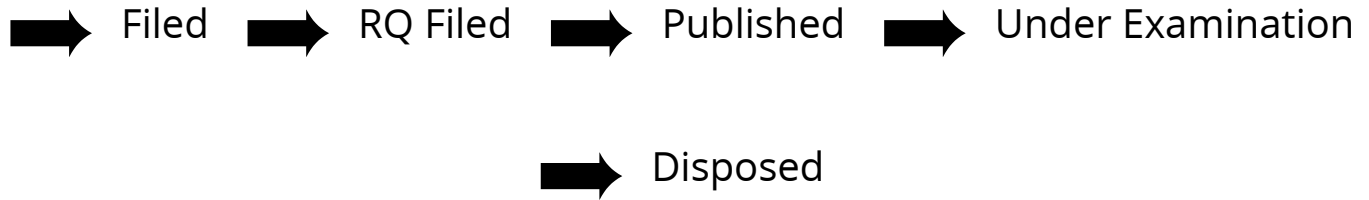
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TITLE OF INVENTION	PROCESS OF PREPARATION OF WATER ACTIVATED PAPER GUMMED TAPE AND PRODUCT THEREOF
FIELD OF INVENTION	POLYMER TECHNOLOGY
E-MAIL (As Per Record)	intellpat@gmail.com
ADDITIONAL-EMAIL (As Per Record)	intellpat@gmail.com
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(71) Name of Applicant :

1) AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN

Address of Applicant : BHARATHI PARK ROAD, NEAR FOREST COLLEGE, SAIBABA COLONY COIMBATORE COIMBATORE TAMIL NADU INDIA 641043 Coimbatore -----

Name of Applicant : NA

Address of Applicant : NA

(72) Name of Inventor :

1) DR. ARULMOZHI ARUMUGAM

Address of Applicant : ASSOCIATE PROFESSOR, DEPARTMENT OF PRINTING TECHNOLOGY, SCHOOL OF ENGINEERING AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN COIMBATORE COIMBATORE TAMIL NADU INDIA 641043 Coimbatore -----

2) DR. LALITHA POTTAIL

Address of Applicant : PROFESSOR OF CHEMISTRY AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN COIMBATORE COIMBATORE TAMIL NADU INDIA 641043 Coimbatore -----

3) DR. SANTHY KUMRAN SIVANANDAN

Address of Applicant : PROFESSOR, DEPARTMENT OF ZOOLOGY AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN COIMBATORE COIMBATORE TAMIL NADU INDIA 641043 Coimbatore -----

(57) Abstract :

TITLE: PROCESS OF PREPARATION OF WATER ACTIVATED PAPER GUMMED TAPE AND PRODUCT THEREOF
APPLICANT: AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN
ABSTRACT The present invention discloses a process for preparation of water activated gummed paper tapes for use in packaging industry. The process of the present invention comprises of a. adding Acetic Acid and Butyric Acid to water hyacinth plant and allow it to stand for 24 hours to form disintegrated water hyacinth; b. washing the disintegrated water hyacinth with water followed by chopping and air drying for three to four days to form dried water hyacinth; c. adding the dried water hyacinth in a cooking digester containing of white liquor and water allowed to cook at a temperature of 165°C for 30 minutes followed by cooling to form black liquor and water hyacinth pulp in which the water hyacinth pulp is washed and the black liquor is discarded; d. refining Hardwood kraft pulp at 33° SR in PFI Mill at 7400 rpm to form unbleached pulp; e. mixing the unbleached pulp and Water Hyacinth pulp followed by rolling to form sheets; f. soaking Neem Gum and Gum Arabic with water followed by continuously stirring to form Neem gum; g. coating the sheets with Neem gum followed by drying to obtain water activated gummed paper tapes. The present invention also discloses a water activated gummed paper tapes for use in packaging industry prepared by the process described above.

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