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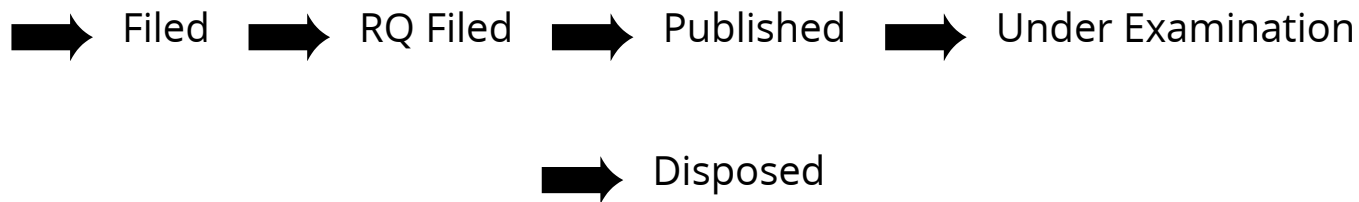
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APPLICANT NAME	AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN
TITLE OF INVENTION	PRONTO LISTERIA DETECTOR SYSTEM FOR EARLY DETECTION OF LISTERIA MONOCYTOGENES
FIELD OF INVENTION	BIOTECHNOLOGY
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## Application Status

APPLICATION STATUS

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(57) Abstract :

TITLE: PRONTO LISTERIA DETECTOR SYSTEM FOR EARLY DETECTION OF LISTERIA MONOCYTOGENES

APPLICANT: AVINASHILINGAM INSTITUTE FOR HOME SCIENCE AND HIGHER EDUCATION FOR WOMEN

ABSTRACT The present invention discloses a Pronto Listeria detector system for early detection of Listeria monocytogenes from food samples especially, milk and milk products. The system of the present invention comprises of image capturing system, sterilizing unit, control circuit and image processing unit in which a. the image capturing system comprises of a closed wooden case with a drawer and a sample holder, plurality of LED lights and a high resolution camera with image sensor; b. the sterilizing unit comprises of Ultraviolet lamp fixed inside the wooden case; c. the control circuit comprises of microcontroller board coupled to a computing system powered with external power supply and memory card unit; d. the image processing unit comprises of ML program to process the images captured by the camera and stored in the memory card unit employing YOLOv3 framework to determine the presence or absence of Listeria monocytogenes in the food samples.

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