

(54) Title of the invention : PEST DETECTION AND REPELLING SYSTEM

<p>(51) International classification :H04N0007180000, A01M0031000000, H04W0004210000, A01M0001020000, A01M0001240000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p><b>1)Chitkara University</b> Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. -----</p> <p><b>2)Chitkara Innovation Incubator Foundation</b> Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p><b>1)HARNAL, Shilpi</b> Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p><b>2)SHARMA, Gaurav</b> Address of Applicant :Seth Jai Parkash Mukand Lal Institute of Engineering and Technology, Radaur, Yamuna Nagar, Haryana - 135133, India. -----</p> <p><b>3)CHOUDHARY, Monika</b> Address of Applicant :Seth Jai Parkash Mukand Lal Institute of Engineering and Technology, Radaur, Yamuna Nagar, Haryana - 135133, India. -----</p> <p><b>4)KHURANA, Savita</b> Address of Applicant :Seth Jai Parkash Mukand Lal Institute of Engineering and Technology, Radaur, Yamuna Nagar, Haryana - 135133, India. -----</p> <p><b>5)SIMAIYA, Sarita</b> Address of Applicant :Seth Jai Parkash Mukand Lal Institute of Engineering and Technology, Radaur, Yamuna Nagar, Haryana - 135133, India. -----</p> <p><b>6)LILHORE, Umesh Kumar</b> Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p><b>7)MISHRA, Anand Muni</b> Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p><b>8)MALIK, Swati</b> Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p><b>9)KAUR, Prabhjot</b> Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jansla, Rajpura, Punjab - 140401, India. -----</p> <p><b>10)BAGGA, Deepak</b> Address of Applicant :Founder, SafeXplore, Yamuna Nagar, Haryana - 135001, India. -----</p>
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(57) Abstract :  
A system for detecting pest and repelling pest from a pre-defined area is disclosed, which is required to be installed in the area. The system include a camera (102) to capture images of the area such as kitchen, warehouse, and the likes, and the captured images can be analysed using machine learning techniques to detect pest in the images. Upon detection of any pest in the images, an ultrasonic sensor (106) is activated to emit high frequency sound that facilitates in irritating the pest and they leave the area. In addition, concerned authorities are notified regarding the pest in the area, thus they may take required action, if there are more pests in the area.

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