

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201911017836 A

(19) INDIA

(22) Date of filing of Application :03/05/2019

(43) Publication Date : 06/11/2020

(54) Title of the invention : FOOD INSPECTION DEVICE AND METHOD OF USE THEREOF

(51) International classification	:H04W0004800000, A23N0015100000, G01V0005000000, H01L0021677000, G06F0003000000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector -9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India
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(86) International Application No	:NA	3)SHARMA, Diksha
Filing Date	:NA	4)CHOUDHARY, Somanshu
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to insect detecting systems, and more specifically, to a food inspection system (hereinafter interchangeably referred as "detection system" or "detection device") and method for the detection of worms inside pea pods and separation of defaulted pea pods. The detection device includes an X-Ray generator 210, an image processing device 212 and a robotic arm separator 214. The X-Ray generator 210 emits X-rays having a wavelength suitable to illuminate the pod within the detection device to reproduce one or more images associated with the internals of the pod. The image processing device 212 processes said one or more images reproduced by the X-Ray generator to detect presence of the one or more worms in said pod. The robotic arm separator 214 communicably coupled with the image processing device 212 and is configured to separate said pod upon detecting presence of the one or more worms.



No. of Pages : 21 No. of Claims : 10