

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211016536 A

(19) INDIA

(22) Date of filing of Application :24/03/2022

(43) Publication Date : 02/02/2024

(54) Title of the invention : AUTOMATED COOK SHIELDING DEVICE

(51) International classification	:G02B0027010000, G01J0005000000, A41D0013000000, A23L0005100000, G02B0023120000	(71) Name of Applicant : 1)Chandigarh Group of Colleges, Jhanjeri Address of Applicant :State Highway 12A Jhanjeri, Sahibzada, Ajit Singh Nagar, Punjab 140307, India. Punjab India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Suruchi
(33) Name of priority country	:NA	2)Diksha
(86) International Application No	:NA	3)Pooja
Filing Date	:NA	4)Neha
(87) International Publication No	: NA	5)Arti
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An automated cook shielding device comprising, a fabric 1 arranged with multiple Velcro straps 2 mapped at different sections of the fabric 1 to enable a cook to wear the fabric 1 from neck portion 3 to thigh portion 4 of the user, two motorized rollers 5 are wrapped with an insulated film assembled over the fabric 1, a motorized scissor 6 to cut the film, an imaging unit 7 for determining presence of dirt over the film, a light weight collection box 8 to collect the sliced dirty film, a light weight flap 9 to rotate and position the flap 9 in front of user's face, an infrared based thermal imaging unit 10 paired with an ultrasonic sensor to determine distance with a high temperature spot, a chamber 11 integrated with multiple electronic nozzles 12 for dispensing defined quantity of water over the fabric 1.

No. of Pages : 15 No. of Claims : 4