

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111014036 A

(19) INDIA

(22) Date of filing of Application :30/03/2021

(43) Publication Date : 16/12/2022

(54) Title of the invention : FASTENER SORTING AND PACKAGING DEVICE

(51) International classification	:B65H0035000000, B65G0047256000, G07F0011580000, B65G0047140000, B07B0013160000	(71) <b>Name of Applicant :</b> <b>1)Chandigarh Group of Colleges, Jhanjeri</b> Address of Applicant :State Highway 12A Jhanjeri, Sahibzada Ajit Singh Nagar, Punjab 140307, India. Punjab India
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Filing Date	:NA	<b>4)A. Anderson Jerin</b>
(87) International Publication No	: NA	<b>5)Sahil Sharma</b>
(61) Patent of Addition to Application Number:	NA	<b>6)Dr. Sajjan Singh</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A fastener sorting and packaging device comprising of a housing with a chamber 1, stores plurality of different sized fasteners, a motorized sliding lid 2 for allowing passage of the fasteners, a sorting conveyer belt 3 for receiving and sorting the fasteners according to their size, plurality of containers 5 collecting the sorted fasteners, an Artificial intelligence (AI) camera 6 in communication for capturing images of the fasteners within the container 5, a pair of electromagnetic plates 7, 8 aligned vertically for aligning the fasteners in same direction, fasteners box 10 stores demagnetized fasteners dropped from the plates 7, 8, a cap storage chamber in connection with a tape dispensing unit 11 associated with the body for capping the box 10, wherein the tape dispensing unit 11 extends towards the capped box 10 and tapes the box 10 from pre-defined directions. Ref Figure 1

No. of Pages : 15 No. of Claims : 7