

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211064761 A

(19) INDIA

(22) Date of filing of Application :11/11/2022

(43) Publication Date : 25/11/2022

(54) Title of the invention : AUTOMATED PACKAGE SEALING DEVICE

(51) International classification :B29C0065000000, B25J0015000000, B61B0001020000, B29C0065740000, B65B0009213000

(86) International Application No :NA
Filing Date :NA

(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

(71)Name of Applicant :

1)Jaipur National University

Address of Applicant :Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Shilpi Bagga

Address of Applicant :School of Business & Management, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur -----

(57) Abstract :

An automated package sealing device consist of, a platform 1 placed on a ground surface in proximity to a package that is to be sealed, an AI module 2 mounted on the platform 1 in synchronization with a textile sensor for detecting type of material of package, a telescopic gripper 3 installed on platform 1 for gripping and positioning edge of package underneath a motorized sliding unit 4 installed on platform 1 via a pair of rods 5, a pneumatic needle 8 installed on sliding unit 4 extend and retract for stitching edge with thread 7 in order to seal package, a pneumatic block 9 configured with sliding unit 4 for applying optimum pressure on the edge of the package, a heating unit 10 integrated with block 9 for heating block 9 in order to seal edge of the package.

No. of Pages : 14 No. of Claims : 6

Registrar
Jaipur National University