

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511042951 A

(19) INDIA

(22) Date of filing of Application :03/05/2025

(43) Publication Date : 23/05/2025

(54) Title of the invention : A MULTILAYER FLEXIBLE BARRIER FILM PRODUCTION DEVICE FOR CORROSION PREVENTION

(51) International classification :B32B0027080000, B32B0027320000, H05K0003460000, B29C0048210000, B29C0048000000

(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)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY

Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. RAJEEV KUMAR

Address of Applicant :Department of Mechanical Engineering, Noida Institute of Engineering & Technology, Greater Noida. Greater Noida -----

(57) Abstract :

A multilayer flexible barrier film production device (100) is disclosed for corrosion prevention. It comprises an extrusion module (101), co-extrusion die (102), roller alignment system (103), lamination unit (104), curing chamber (105), and quality inspection unit (106). The device enables continuous production of six-layered films with oxygen, moisture, and UV resistance, offering high flexibility, mechanical strength, and interlayer adhesion for industrial corrosion protection.

No. of Pages : 15 No. of Claims : 5