

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202011012506 A

(19) INDIA

(22) Date of filing of Application :23/03/2020

(43) Publication Date : 24/09/2021

(54) Title of the invention : MULTI-THREAD PLYING SYSTEM

(51) International classification :D02G0003280000,
B60B0019000000,
B62K0015000000,
B62B0005020000,
B65H0051015000

(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(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)CGC Technical Campus Jhanjeri

Address of Applicant :State Highway 12A Jhanjeri, Sahibzada
Ajit Singh Nagar, Punjab 140307, India. Punjab India

(72)Name of Inventor :

1)Richa Mehta

(57) Abstract :

The present invention relates to a multi-thread plying system, comprising a solid frame having a thread stand 1 at a first end with plurality of holders aligned in a stack for holding a set of thread spools, a rotatable primary wheel 2 connected in proximity with the stand 1, wherein the primary wheel is rotated via a motor, plurality of clamps fabricated on circumference of the wheel to pass threads from the spools across plurality of perforated holes engraved on surface of the wheel 2 for twisting the threads, a slidable secondary wheel 3 associated the primary wheel 2 for receiving the twisted threads around the periphery of the wheel 3 in order to avoid thread nests, and at least one rotating spindle 4 attached at a second end of the frame, wherein the twisted threads are helically wound about the spindle 4 for plying the threads.

No. of Pages : 10 No. of Claims : 7