

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311074868 A

(19) INDIA

(22) Date of filing of Application :02/11/2023

(43) Publication Date : 01/12/2023

(54) Title of the invention : PIPE CUTTING ASSISTIVE DEVICE

(51) International classification :D06F0039120000, F01B0009020000, A61B0017320000, E21B0019160000, G16H0020300000

(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 and Technology, Greater Noida

Address of Applicant :Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Pulkit Srivastava

Address of Applicant :Department of Mechanical Engineering, Noida Institute of Engineering and Technology, Greater Noida, Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida -----

2)Nisha

Address of Applicant :Department of Electronics and Communication Engineering, Noida Institute of Engineering and Technology, Greater Noida, Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida -----

3)Dr. Raman Batra

Address of Applicant :Executive Vice President, Noida Institute of Engineering and Technology, Greater Noida, Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida -----

(57) Abstract :

The present invention relates to a pipe cutting assistive device, comprising a housing 1 configured with wheels 2 for maneuvering the housing 1, a touch screen 3 installed on housing 1 for enabling user's input details, a motorized door 4 installed on housing 1 to open/close the door 4, a tray 5 configured within housing 1 for receiving pipe, a camera 6 installed within housing 1 for determining placement of pipe, a frame 7 positioned within the housing 1 for securing pipe, a gripping unit 8 configured with housing 1 for gripping pipe, a scotch yoke arrangement 9 configured with a blade 10 configured with housing 1 to provide reciprocating motion to blade 10 for cutting the pipe, a speaker 11 installed on housing 1 for notifying the user and an electronic sprinkler 12 mapped on a chamber 13 attached in proximity of frame 7 for sprinkling water.

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