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(57) Abstract :

An automatic metal staircase installation device, comprising a primary and secondary platform 1, 2 configured with plurality of lifting arrangement 3 positioned on ground surface, a push button 4 is configured on primary platform 1 that is pressed by user for generating command regarding activation of device, a camera 5 for capturing multiple images of surrounding of platform 1, 2, a touch enabled screen 6 mounted on primary platform 1 enabling user to select exact location at which metal staircase to be installed, a pair of hydraulically operated clamps 8 for gripping pair of bottom stringer, a motorized slider 9 to translate clamps 8 away from each other, a primary robotic arm 11 to position drill 12 on hole crafted on stringer, a secondary robotic arm 13 assembled with electric arc welder 14 to position treads on stringer and a laser cutting unit 15 to cut metal strip.

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