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(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Amarjeet Kaur
(33) Name of priority country	:NA	2)Ashmeet Kaur
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(57) Abstract :

An automatic sack lifting device, comprising, a pair of frames 1, 2 having two portions for bearing load of an object, a pair of base plates 3, 4 to provides a platform for placing the object, a weight sensor for detecting the weight of the object, a pair of gripping unit 5, 6 having plurality of arms to hold the object on receiving command from the microcontroller, a thermal imaging camera 10 for detecting conditions of the shoulders wherein the microcontroller on processing the detected conditions generates a command above the threshold level, a pair of inflating units 7, 8 expands along length of the frame 1, 2 to reduce strain on the shoulder caused due to the load, and a motorized telescopic arm 9 connected to the frame 1, 2 for sticking a patch on hole of the sack as per the image processed by the camera. Ref Figure 1

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