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(57) Abstract :
An automatic wheel balancing device, comprising a body 1 having a motorized shaft 2 utilized for movement of a wheel and covered by a hood 3, an image capturing module 4 for detecting a portion on the wheel's rim or/and tyre subjected for coupling with an additional weight to facilitate balancing of the wheel, a base plate 5 for placement of clip weights 6 which pass through a conduit manually, a robotic arm that extends for gripping and positioning the weights on the detected portion, wherein a telescopic hammer 7 extends to place the clip weight in a slot formed in between the tyre and rim, a flat slab 8 configured with multiple cavities for holding a adhesive strip, wherein a primary telescopic rod 9 attached with multiple suction cups 10 are employed for gripping and moving the strip to the wheel's rim for balancing in case the clips fail. Ref. Figure 1

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