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(57) Abstract :

An automatic gap filling device for floors comprising, a cuboidal body 1 positioned over a gap to be filled, a touch enabled screen 2 mapped on body 1 accessed by user for giving input regarding colour of rubber strip for filling gap, an AI module 3 mounted on body 1 captures multiple images of ground surface, multiple rollers 4 wrapped with different color rubber strips, a telescopic gripper 5 installed on body 1 grips free-end of rubber strip and passes it through a cylindrical member 6, a heating unit 7 integrated with member 6 heats rubber strip to adhere rubber strip within gap, multiple motorized omnidirectional wheels 8 configured underneath body 1 maneuver body 1, an L-shaped telescopic pusher 9 configured on body 1 applies an optimum pressure, a robotic arm 10 equipped with a plate 11 configured on housing 1 removes extra portion of rubber strip.

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