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TITLE OF INVENTION	IOT BASED SMART MATERIAL FOR EV SEGMENT USING WIRE ELECTRICAL DISCHARGE MACHINING THEREOF	
FIELD OF INVENTION	COMMUNICATION	
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(57) Abstract :

TITLE: IOT BASED SMART MATERIAL FOR EV SEGMENT USING WIRE ELECTRICAL DISCHARGE MACHINING THEREOF The present invention relates to a Smart material with IoT consists of sensor, to detects the shape dimension or size, environmental factors and sends feedback towards the Arduino chip to counter the changes, Heating or Cooling device, acts as an external stimulus based on the current environmental condition to the smart material to regain its shape. The controller device (3) controls the external stimuli from the feedback signal from the sensors planted with the other devices placed on different positions as heating or cooling elements. The present invention is used in various applications such as satellite antennas. As satellites in space may tend to face to obstacles the antennas or other parts may get damaged due to interaction with the obstacles, which in case of smart materials with IoT can regain their shape by an external stimulus.

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