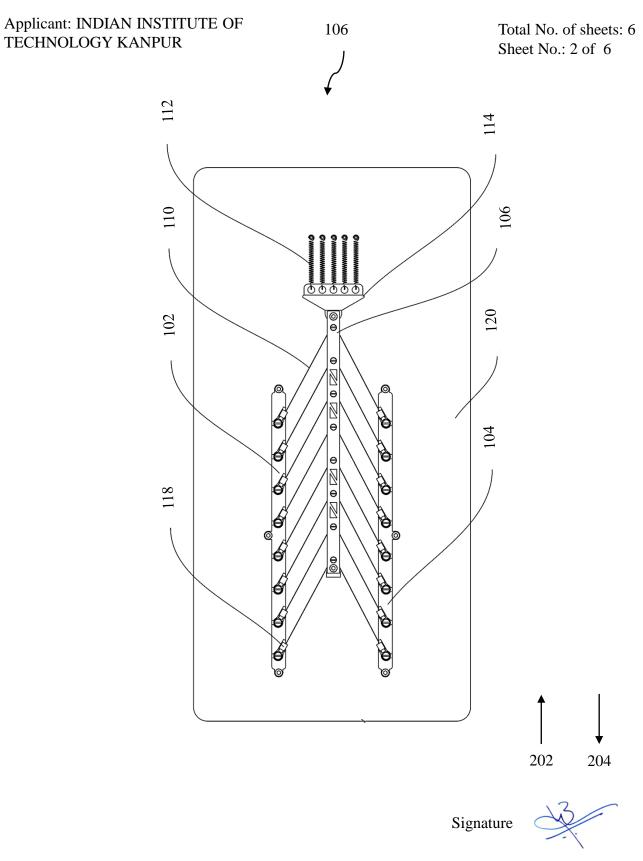


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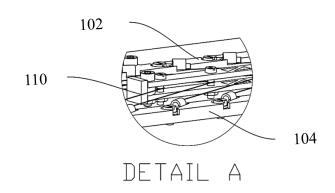


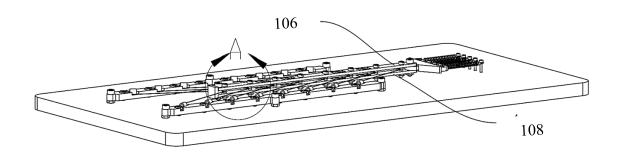
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Patent Agent (IN/PA-2912) Agent for the Applicant



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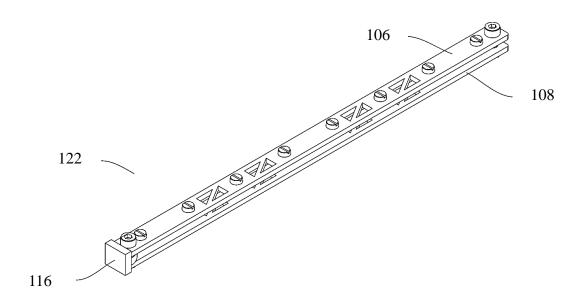


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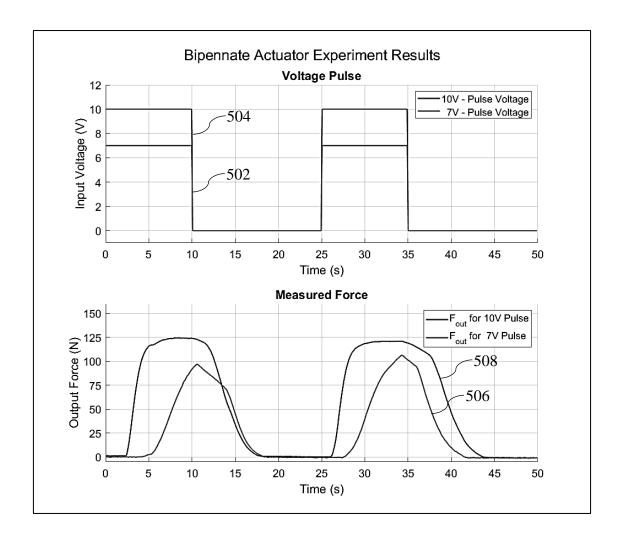
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FIG. 4



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Supply input pulsed voltage to each of plurality of SMA wires. 602

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Heat plurality of SMA wires above austenite finish temperature to contract length of the plurality of SMA wires. 604

Actuate movable subassembly by moving the movable subassembly in a specified direction through which plurality of SMA wires are wound starts moving. 606

Generate a force in direction of movement of the movable subassembly by elongation of a bias spring. 608

Cool heated plurality of SMA wires below martensite finish temperature when the pulse voltage becomes zero. The plurality of SMA wires elongate on cooling by convection and recovers the plurality of SMA wires original shape after reaching a Twinned Martensite phase. 610

Absorb force generated by bias spring and reach compressed state as plurality of SMA wires recovers and reaches the plurality of SMA wires original shape. 612

FIG. 6

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