

(54) Title of the invention : AUTOMATED KNEE STABILIZING DEVICE

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(71)Name of Applicant :
1)Noida Institute of Engineering and Technology, Greater Noida
 Address of Applicant :Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida -----

Name of Applicant : NA
Address of Applicant : NA

(72)Name of Inventor :
1)Rakesh Kumar Singh
 Address of Applicant :Department of Mechanical Engineering, Noida Institute of Engineering and Technology, Greater Noida, Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida -----

2)Dr. Apoorva Joshi
 Address of Applicant :Master of Computer Applications, Noida Institute of Engineering and Technology, Greater Noida, Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida -----

3)Dr. Vinod M. Kapse
 Address of Applicant :Director, Noida Institute of Engineering and Technology, Greater Noida, Plot No. -19, Knowledge Park-II, Institutional Area, Greater Noida, Uttar Pradesh-201306, India. Greater Noida -----

(57) Abstract :
 An automated knee stabilizing device, comprising a first and second set of extendible bodies 1, 10 configured with a strap 2 positioned on a Popliteal Fossa region of a user's leg, a motorized hinge joint 3 aids in appropriate movement of bodies 1, 10 in bending legs, a laser sensor for detecting dimensions of user's leg, an electromagnetic spring 4 for assisting user in bending/stretching of knees, an electronic controlled nozzle configured with a chamber 5 installed on body 1, 10 for dispensing pain relieving solution, a thermal imaging unit 6 installed on each set of bodies 1, 10 for detecting strain in user's Popliteal Fossa region, and plurality of rollers 7 mapped on periphery of body 1, 10 via a L-shaped link 8 to rotate over Popliteal Fossa region for enabling roller to massage over region thereby reducing strain.

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