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PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

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(54) Title of the invention : SMART ANKLE PUMP SOCK WITH SENSOR-DRIVEN COMPRESSION FOR NEUROREHABILITATION THERAPY

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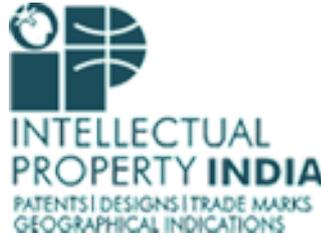
(57) Abstract :
ABSTRACT SMART ANKLE PUMP SOCK WITH SENSOR-DRIVEN COMPRESSION FOR NEUROREHABILITATION THERAPY An ankle pump sock system is disclosed for promoting circulation, preventing complications, and aiding rehabilitation in patients with reduced mobility, particularly those with neurological impairments. The system comprises a wearable sock body integrated with inflatable pneumatic bladders, a pump mechanism, a pressure regulation system, and a programmable control unit. Through cyclic inflation and deflation of the bladders, the device passively simulates dorsiflexion and plantarflexion of the ankle, thereby enhancing venous return, reducing edema, minimizing the risk of deep vein thrombosis (DVT), and preventing muscle atrophy. Optional features include pressure or motion sensors for feedback control, wireless communication for remote monitoring, and adjustable compression settings for personalized therapy. The device is particularly suited for use in neurorehabilitation and for bedridden patients requiring continuous passive movement to prevent secondary complications.

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Application Details

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TITLE OF INVENTION	SMART ANKLE PUMP SOCK WITH SENSOR-DRIVEN COMPRESSION FOR NEUROREHABILITATION THERAPY
FIELD OF INVENTION	BIO-MEDICAL ENGINEERING
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(39 OF 1970)

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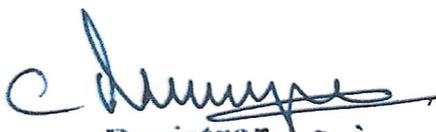
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hereby authorize, Prem Charles I (INPA3311) and Madhu Smita (INPA3454), Registered Patent Agents with address for communication at Allinnov Research and Development Private Limited, #360A, First Floor, Senthur Murugan Kovil Street, Opp. S.M. Mahal, Oldpet, Krishnagiri - 635001, Tamil Nadu, India, to act on our behalf in connection with Patent filing and further prosecution, filing of assignments and any document related thereto, with reference to our patent application/ reference no. 202541044081 dated 07-05-25 and all further patent applications filed by them in future, on our behalf and request that all notices, requisitions and communications relating thereto may be sent to such person at the above address unless otherwise specified. They are also authorized to substitute another attorney / agent to attend hearings (if any) in relation to the patent. We hereby revoke all previous authorizations, if any, in respect of same matter or proceeding. We hereby assent to the action already taken by the said persons in the above matter.

Dated - 09-05-25


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Docket No 46970

Date/Time 09/05/2025

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