

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511100947 A

(19) INDIA

(22) Date of filing of Application :17/10/2025

(43) Publication Date : 05/12/2025

(54) Title of the invention : A VIRTUAL REALITY SYSTEM FOR SMART PHYSICAL REHABILITATION THERAPY

(51) International classification	:G06F0003010000, G16H0020300000, A61B0005000000, A61B0005110000, G16H0050200000	(71) Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, Knowledge Park-II, Institutional Area, Greater Noida – 201306, Uttar Pradesh, India. Uttar Pradesh India
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(86) International Application No	:	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention discloses a Virtual Reality Rehabilitation System (100) designed for smart physical therapy. The system integrates a VR headset (101), motion sensors (102), and a computing unit (103) to deliver immersive rehabilitation environments. A therapist dashboard (104) enables real-time monitoring, while a haptic feedback module (105) reinforces correct movement execution. A remote connectivity interface (106) supports tele-rehabilitation, allowing patients to receive therapy at home. AI-driven analytics adapt therapy programs dynamically, ensuring personalized rehabilitation, improved adherence, and accelerated recovery outcomes across diverse medical conditions.

No. of Pages : 14 No. of Claims : 6