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## SMART AND INTUITIVE OSSEOINTEGRATED TRANSFERMORAL PROSTHESIS EMBODYING ADVANCED DYNAMIC BEHAVIORS

**Osseointegrated Implant** to enhance human-prosthesis interaction, perception, and motion capabilities Implantable Myoelectric Sensors on Targeted Reinnervated Muscles to provide an intuitive control and to extend the user's cognitive capabilities Variable Stiffness Actuators & Novel Composite Materials to achieve energy efficiency, dependability, and adaptability to different tasks











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