MODULAR OSSEointegrated, POROUS-COATED PROSTHETIC ABUTMENT SYSTEM

MEDICAL DEVICES

Abutment system for coupling an implant stem to a prosthesis using osseointegrated modular components.

TECHNOLOGY TYPE
Prosthetics
Orthopedics

STAGE OF DEVELOPMENT
- Prototype developed.
- Ongoing animal testing.
- Prototype optimization still required.

IP PROTECTION
Nationalized PCT Issued in the United States and Europe
Modular Prosthetic Abutment System
US9839535B2 EU2874572
Utility Patent Pending
Modular Prosthetic Abutment System

TECHNOLOGY SUMMARY
Percutaneous fixation implants anchor a prosthesis to a selected bone, which increases mobility, but can cause infection, skin regression, and early implant failure. Such complications require surgery to replace the implant and involve long recovery periods that reduce the quality of life for amputees. The Modular Osseointegrated, Porous-coated Prosthetic Abutment System (MOPPAS) alleviates complications associated with existing fixation systems through the use of removable modular components. Interlocking sleeves and an end cap fasten MOPPAS components together. Portions of the implant can be removed and replaced individually, which increases the longevity of implants systems and reduces more complicated, follow-on surgeries necessary to replace failed implants.

FEATURES AND BENEFITS
- Improves the integration of implants with soft tissue, increasing the stability and acceptance of prosthetics.
- Reduces infection and skin regression.
- Decreases incidence of implant failure and re-implantation surgeries.
- Increases longevity of prosthesis implants.

LEARN MORE
Reference Number: U-5069

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