

Bioactive glass coating for dental application

IPR STATUS

Patented

APPLICATION/USES

Healthcare; Bioactive glass/hydroxyapatite coating on metallic tooth root part (total dental implant)

SALIENT FEATURES

Cement-less fixation compared to the polymer cement fixation of bare metallic dental implants and gives rise to many advantages that include absence of heat generation during implantation, non-requirement of secondary surgery to remove the bone cement after some time, faster bone resorption, etc.; more adherent bioactive coating by using suitable bonding oxide, mechanically strong,

adherent bioactive coating on metallic implant substrates including titanium and its alloys, novel recipe of a suitable blend of oxides to produce more chemically adherent bioactive glassy coating on surgical grade stainless steel, Co-Cr-Alloy, titanium and its alloy surface in orthodontic application

LEVEL/SCALE OF DEVELOPMENT

- Commercialized product
- Commercialized through industry partner

LINE MINISTRY MAPPING/USER SECTOR

Ministry of Health & Family Welfare



Typical bioactive glass coated hip stems with ceramic head

