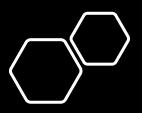
US PATENT Issued Feb. 23, 2021

#10,925,695 B2

New concept in Jaw Implant

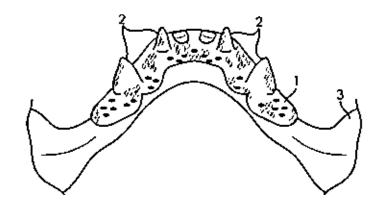
Dr Wael H Khalil August 2022



New concept in Jaw Implant

Dr Wael H Khalil August 2022





Medical device inserted in the body to replace missing part

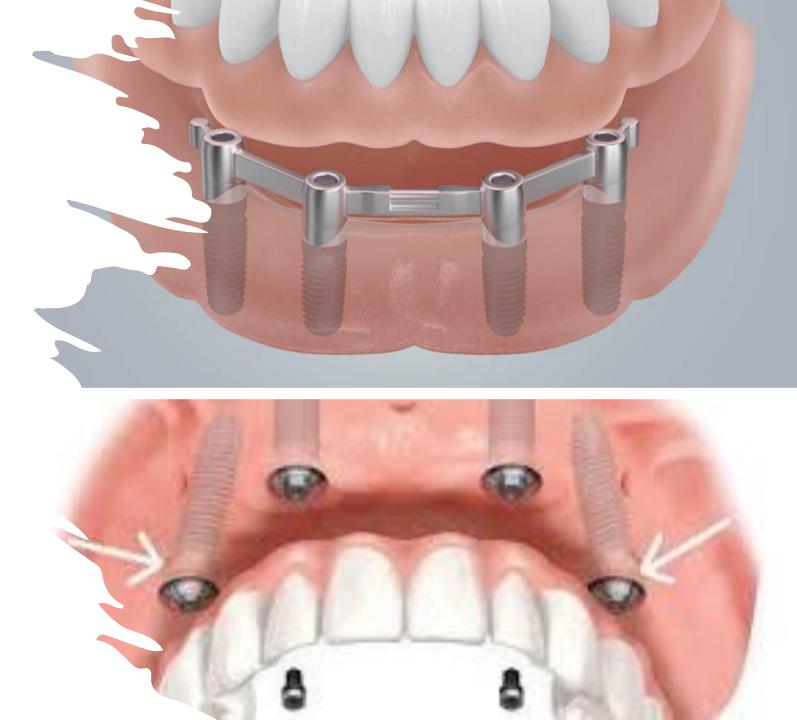
Teeth loss with **Sufficient bone**

TEETH LOSS

Teeth loss with Insufficient bone

Teeth Replacement Enough Bone in the Jaw





Denture

Advanced Bone Reconstructive Surgery

Subperiosteal Implant

Teeth Replacement

Enough Bone in the Jaw



Denture

1-50% of function2-Additional Bone loss3-Psychological burden





Teeth Replacement Insufficient Bone in the Jaw

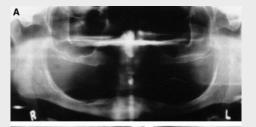


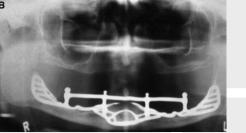


1-Time consuming
2-Expensive
3-Pain and Morbidity
4-Risk associated

Advanced Bone Surgery

Subperiosteal Implant



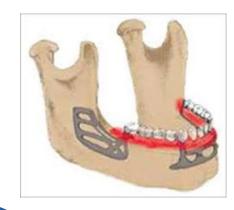


1-Failure
2-Additional Bone loss
3-Infection
4-Difficult to fabricate

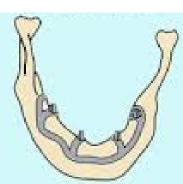
Failure of Subperiosteal Implant Stiffness of frame-work vs bone elasticity

Teeth Replacement

Insufficient Bone in the Jaw



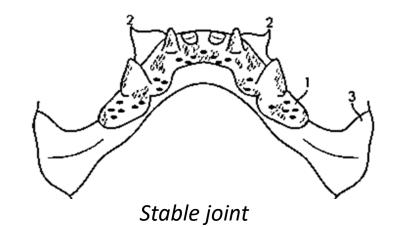
Old Approach to Jaw Implant



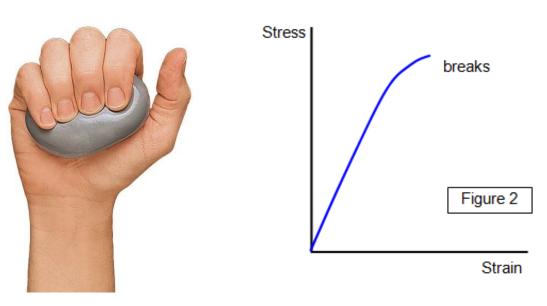
Weak Joints

Success Factor 1 | Design Concept

New Concept for Jaw Implants



Success Factor 1 | Material Concept Elastic Material

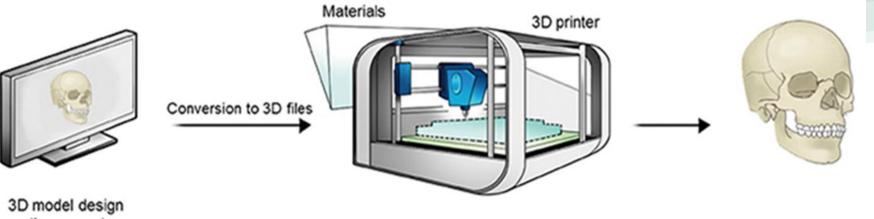




Stiff Material

Success Factor 1 | Method Concept

From Manual to 3D Printing Technology



on the computer

More Aesthetic

More Functional



Better Quality of Life