

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202041053985 A

(19) INDIA

(22) Date of filing of Application :11/12/2020

(43) Publication Date : 01/01/2021

(54) Title of the invention : DISSOLVABLE CUSTOMIZED NON-LOAD BEARING IMPLANTS WITH FIXING SCREWS AND METHODS THEREOF

(51) International classification	:F16C 29/06	(71) Name of Applicant : 1)Dr. KAVULURU LAKSHMI NARAYANA Address of Applicant :Professor, Dept. of Mechanical Engineering, K L University, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Green fields, Guntur Dist, Andhra Pradesh-522502, India. Andhra Pradesh India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)Dr. KAVULURU LAKSHMI NARAYANA
(61) Patent of Addition to Application Number	:NA	2)Dr. MANTRALA KEDAR MALLIK
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a dissolvable customized non-load bearing implants with fixing screws and methods thereof. The method for manufacturing a dissolvable customized non-load bearing implant with fixing screws comprising: obtaining CT scan data from a patient; analyzing the CT scan data and capturing the images; converting the images into a compatible file format; cropping and preparing for customized non-load bearing implant with fixing screws; designing the customized non-load bearing implant with fixing screws; printing the customized implant on a 3D Printer; and implanting the customized non-load bearing implant with fixing screws at a designated region in the patientTMs body. FIG.2

No. of Pages : 27 No. of Claims : 7