(12) PATENT APPLICATION PUBLICATION   (21) Application No.202011033544 A

(19) INDIA

(22) Date of filing of Application :05/08/2020   (43) Publication Date : 11/02/2022

(54) Title of the invention : SYSTEM AND DEVICE FOR STRUCTURAL MONITORING OF SCULPTURES

(51) International classification	:A61B0005000000, G01J0003180000, H04W0024080000, G01J0003020000, A61B0005080000	(71)**Name of Applicant :** 　**1)Chitkara Innovation Incubator Foundation** 　　Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India (72)**Name of Inventor :** 　**1)GHOSH, Debarshi** 　**2)SALUJA, Nitin** 　**3)DHINGRA, Nitika** 　**4)KANWAR, Varinder S** 　**5)SINGH, Chanpreet**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure pertains to a system and device for structural monitoring of sculptures. The system 100 includes a computing device 104 configured with a modeling module, where the modeling module is configured to design models of the one or more sculptures based on captured one or more images of the one or more sculptures, a network analyzer (NA) 106 operatively coupled with the computing device 104 and configured to analyze scattered parameters of the designed models, and correspondingly generate a first set of signals, a spectral device 108 operatively coupled with the network analyzer 106 and the computing device 104 and configured to determine spectral components of the one or more sculptures and correspondingly generate a second set of signals. The computing device 104 includes a processing unit 104-1 operatively coupled with the NA 106 and the spectral device 108 and configured to generate a set of alert signals based on the received first set of signals and the second set of signals.

No. of Pages : 31 No. of Claims : 10