

(54) Title of the invention : DNA BASED MULTINOMIAL AUDIO STEGANOGRAPHY

(51) International classification :B82Y 100000, C12N 151000, C12Q 016827, G06T 010000, H04N 013200

(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

(71)Name of Applicant :
1)Chitkara University
 Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----
2)Chitkara Innovation Incubator Foundation
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)Dr. Gaurav Sharma
 Address of Applicant :Associate Professor, Department of Interdisciplinary Courses in Engineering (DICE), Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India Rajpura -----

2)Ms. Ratna Prakarsha Kandukuri
 Address of Applicant :MS Scholar, University of Massachusetts Dartmouth, MA 02747, United States -----
3)Mr. Anil Kumar
 Address of Applicant :Sr. Manager Capgemini Technology Services India Limited, 139, Noida Special Economy Zone, Phase-2, Noida, Uttar Pradesh-201305, India Noida -----

4)Dr. Manjeet Kharub
 Address of Applicant :Assistant Professor, Department of Operations Management, Institute of Management Technology, Raj Nagar, Post Box No. 137, Ghaziabad, Delhi NCR-201001, India Ghaziabad -----
5)Dr. Amit Arora
 Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, CVR College of Engineering, Vastunagar, Mangalpalli (V), Ibrahimpatnam (M), Rangareddy (D), Hyderabad, Telangana-501510, India Hyderabad -----

6)Dr. Bharti Sharma
 Address of Applicant :Department of Business Management, University School of Business, Chandigarh University, Mohali, Punjab- 140413 Mohali -----

(57) Abstract :
 ABSTRACT DNA Based Multinomial Audio Steganography The present invention relates to a DNA based Multinomial Audio Steganography method for creation of a secret code is disclosed, comprising the steps: i. Encryption of a secret message; ii. Hiding the encrypted message inside a reference DNA; iii. Hiding the DNA in an audio file; wherein the secret message is encrypted on a bioinspired XOR cipher with an encrypted key generated based on a multinomial model and the encrypted key is generated based on multinomial model parameters Figure 1

No. of Pages : 15 No. of Claims : 6