

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202611022618 A

(19) INDIA

(22) Date of filing of Application :25/02/2026

(43) Publication Date : 01/05/2026

(54) Title of the invention : SYSTEM FOR SYMBOLIC DREAM CAPTURE AND TRANSCRIPTION

(51) International classification	:A61B 5/00, A61B 5/16, A61B 5/11, A61B 5/0476, A61B 5/374	(71)Name of Applicant : <b>1)Chitkara University</b> Address of Applicant :Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Rajpura Punjab India (72)Name of Inventor : <b>1)Dr. Raj Gaurang Tiwari</b> <b>2)Saanvi Tiwari</b> <b>3)Akshat Tiwari</b>
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:	
Filing Date	:01/01/1900	
(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 :

A system for symbolic dream capture and transcription, comprising a wearable headset 101 integrated with functional near-infrared spectroscopy (fNIRS) sensor 102 and electroencephalography (EEG) sensor 103 for measuring brain activity in deeper regions with real time and high temporal precision, a nasal sensor 104 to monitor breathing patterns and an accelerometer 105 to detect micro movements during sleep, a machine learning (ML) based module 106 installed on a connected computing unit 107 identifies unique neural signatures consistently associated with specific user concepts, a user interface 108 allows the user to select or define concepts and displays symbolic representations of captured dreams, a generative AI module reconstructs visual and narrative approximations of the dream, while an encryption and federated learning module 110 ensures secure data handling and shared model training, a processing unit 111 coordinates sensor operation, data fusion, pattern recognition, and overall system functionality for accurate and privacy preserving dream transcription.

No. of Pages : 20 No. of Claims : 9