

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202311036328 A

(19) INDIA

(22) Date of filing of Application :25/05/2023

(43) Publication Date : 30/06/2023

(54) Title of the invention : SYSTEM AND METHOD TO CONTROL APPLIANCES USING AUGMENTED REALITY

(51) International classification :G06F 030420, G06F 030484, G06F 094450, G06T 190000, H04N 214310
(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. Patiala -----

2)Chitkara Innovation Incubator Foundation

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)JINDAL, Poonam

Address of Applicant :Department of Electronics and Communication Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

2)DUBEY, Aditya

Address of Applicant :Department of Electronics and Communication Engineering, Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----

(57) Abstract :

The present disclosure relates to an augmented reality-based appliance controlling system (100) that includes an image acquisition unit (102) that acquires a target image of at least one appliance, recognizes the target image, and displays it on a display unit (104). Additionally, the system includes a processor (106) configured to display a set of virtual buttons associated with the appliances on the display unit (104). These virtual buttons are overlaid onto the physical environment captured by the image acquisition unit, creating an augmented reality interface. Further, the system receives gestures from the user's hand and fingers as they interact with the displayed virtual buttons, and upon recognition of these gestures, the graphical user interface (GUI) is activated to control functions of the appliance corresponding to the gesture.

No. of Pages : 29 No. of Claims : 8