

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511061869 A

(19) INDIA

(22) Date of filing of Application :28/06/2025

(43) Publication Date : 11/07/2025

(54) Title of the invention : A COMPACT REAL-TIME LANGUAGE TRANSLATION DEVICE FOR CROSS-CULTURAL COMPUTING

(51) International classification :G06F0040580000, G06N0003063000, G10L0015260000, G10L0015220000, G10L0015000000

(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

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(57) Abstract :  
The present invention discloses a compact real-time language translation device (101) equipped with microphone (102), speaker (103), touchscreen (104), neural processor (106), and multilingual storage (109). It performs offline speech and text translation between multiple languages using contextual neural models. The device operates bidirectionally, includes a wireless module (107) for updates, and functions independently of cloud services. Designed for portable use, the system offers high translation accuracy, dialect recognition, and energy-efficient operation, supporting global communication across education, health, and travel domains.

No. of Pages : 14 No. of Claims : 5