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(57) Abstract :

An electronic writing device, comprises of a physical diary body 101 with a plurality of removably attached pages 102 and a spine 103, each page 102 coupled with an electromagnetic resonance sensor grid 104 to detect and track stylus movement, a processing unit integrated with a handwriting digitization module to capture, digitize, interpret, and enhance handwritten content into digital data in real time, a plurality of electroactive polymer actuators 105 sandwiched between pages 102 and the sensor grid 104 to generate tactile sensations simulating pen-on-paper friction, a scanning module with an AI enabled camera 108 mounted on a telescopic arm 109 and coupled with an OCR module to capture and process handwritten content, and a language translation module operatively connected to the processing unit for recognizing handwritten input and performing instantaneous translation into digital text or audio output.

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