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- (54) Title: DIGITAL MEDICINE COMPANION FOR TREATING AND MANAGING SKIN DISEASES

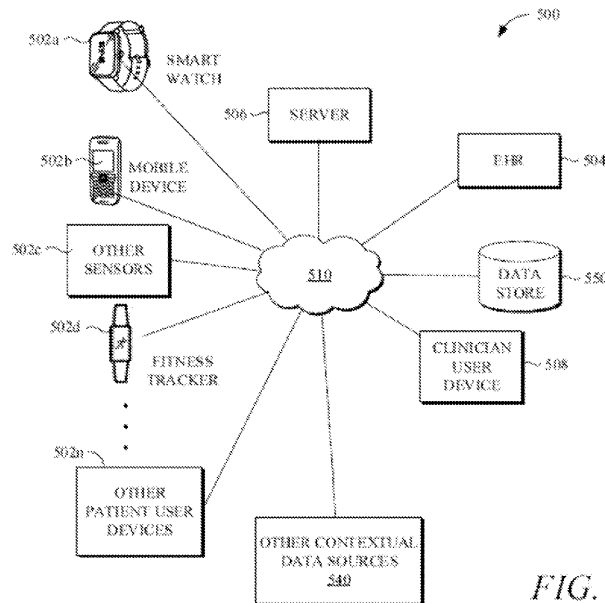


FIG. 5

(57) Abstract: A digital medicine companion for managing skin diseases (e.g., atopic dermatitis, psoriasis) may include patient wearable devices passively collecting patient data, patient user devices with healthcare applications for the patient to enter health related data, central analytics for flare prediction and disease progress tracking, and a clinician dashboard. For flare prediction, a prediction tool may be trained using the ground truth of recorded flare occurrences for the trained model to predict whether observed scratch events may result in a flare. Upon predicting a likely flare, alert notifications may be generated, e.g., for a clinician and/or the patient. Furthermore, a baseline may be established based on the data passively gathered from the wearables and actively gathered from the patient user devices. The continuously collected data may be compared against the established baseline. Upon detecting a significant deviation, alerts may be sent to the patient and/or the clinician.

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