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Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*

(54) Title: PREMATURE AGING DETECTION USING DYNAMIC FACIAL IMAGING

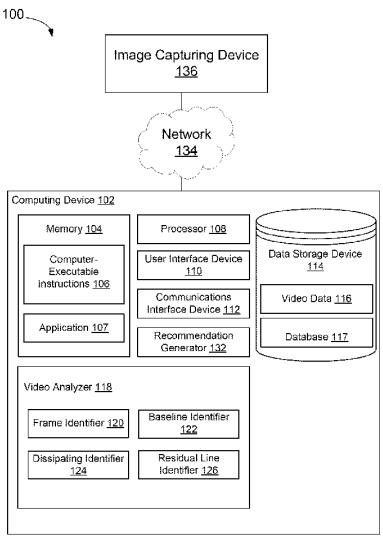


FIG. 1

(57) Abstract: Systems, methods, and instrumentalities are described herein for identifying a user (e.g., a consumer) at risk for premature aging through dynamic facial imaging assessment. For example, a computing system may receive video data. The video data may be, or may include, one or more frames associated with the face of the user. The computing device may identify a frame from the video data. The computing device may determine a number of baseline wrinkles associated with the first state. The computing device may determine a number of dissipating wrinkles associated with the second state (e.g., a duration after the peak and relaxation of facial expression). Based on the number of baseline wrinkles and the number of dissipating wrinkles, the computing device may calculate a number of residual wrinkles between the first state and the second state. The computing device may map the number of residual wrinkles to the consumer risk for premature aging.

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