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(54) Title: FACIAL RECOGNITION SYSTEM FOR ALLEVIATING AMBIENT LIGHT DURING IMAGE CAPTURE

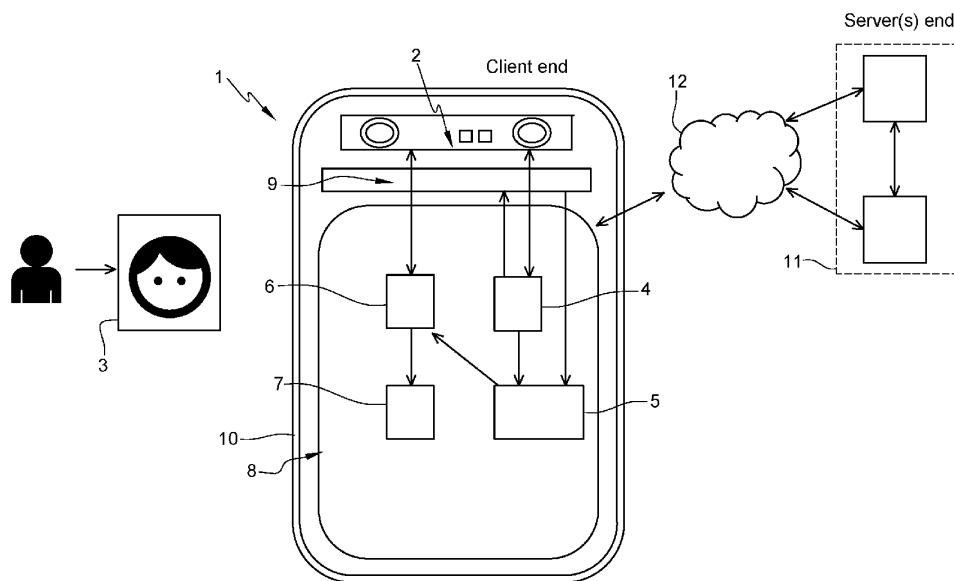


Fig. 1

(57) Abstract: The present invention provides a facial recognition system for alleviating ambient light during image capture, the system comprising: - a stereo camera configured to capture an image and send it to a face detection module, wherein the image comprises depth information of objects within the depth of field, - the face detection module configured to identify a face based on the depth information of the received image from the stereo camera, - an processing module configured to - split the image into a facial area and a non-facial area, wherein the facial area corresponds to the identified face region by the face detection module, and - outcome exposure adjustment factors for each area, these exposure adjustment factors being calculated based at least on a brightness values comparison of both facial and non-facial areas, - a dual-regional adjustment module configured to separately adjust the exposure of both the facial and non-facial areas according to the adjustment factors, and - a face matching module configured to verify or enroll person's face identity

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based on the exposure-adjusted facial area.