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(54) **ACTIVITY ANALYSIS, FALL DETECTION AND RISK ASSESSMENT SYSTEMS AND METHODS**

(71) Applicant: **The Curators of the University of Missouri**, Columbia, MO (US)

(72) Inventors: **Erik Edward Stone**, Fulton, MO (US);
Marjorie Skubic, Columbia, MO (US)

(73) Assignee: **The Curators of the University of Missouri**, Columbia, MO (US)

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(58) **Field of Classification Search**
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Primary Examiner — Sean Dougherty

Assistant Examiner — Daniel Cerioni

(74) *Attorney, Agent, or Firm* — Thompson Coburn LLP

(57) **ABSTRACT**

Aspects of the present disclosure include methods and corresponding systems for performing health risk assessments for a patient in the home environment. In various aspects, depth image data for a person may be obtained and subsequently processed to generate one or more parameters, such as temporal and spatial gait parameters. Subsequently, the generated parameters may be processed with other medical information related to the patient, such as electronic health records, to perform various health risk assessments.

20 Claims, 5 Drawing Sheets

