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(54) Title: SYSTEM FOR REDUCING HIGH FALL STUNT INJURIES WHEN USING AN AIRBAG

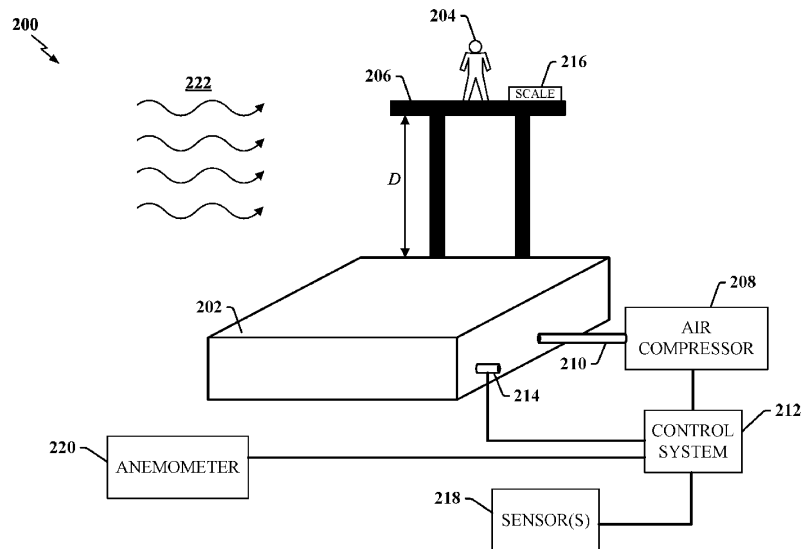


FIG. 2

(57) **Abstract:** Aspects of the disclosure relate to methods, apparatus, and systems for optimizing an energy exerted on a performer falling from an elevated platform and impacting an airbag. A system is configured to determine a weight of the performer to fall from the elevated platform toward the airbag, measure a distance between the elevated platform and the airbag, and set an air pressure of the airbag based on the weight and the distance prior to the performer falling toward the airbag. The system is further configured to determine, while the performer falls toward the airbag, a velocity the performer will reach upon impact with the airbag, and adjust the air pressure of the airbag based on the velocity while the performer falls toward the airbag to optimize an energy exerted on the performer when the performer impacts the airbag.

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