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(54) **Title:** SUPPORTING STABILITY OF CIVIL ENGINEERING MACHINE

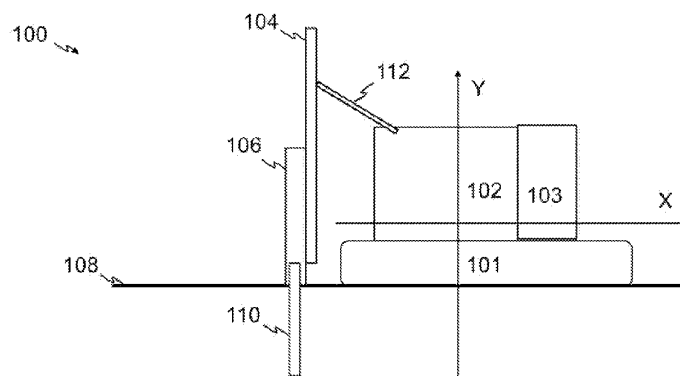


Fig. 1

(57) **Abstract:** There is provided a method for operating a civil engineering machine in a manner that supports stability, comprising receiving at a first configuration of the civil engineering machine (100) first inclination measurements from one or more sensors for measuring inclination of the civil engineering machine (100); receiving at the first configuration of the civil engineering machine (100) first load measurements indicating a load of the civil engineering machine (100) from at least one of the following: one or more actuating units, or one or more sensors; determining a load capacity model of the civil engineering machine (100) based on the received first inclination measurements and based on the received first load measurements; receiving at a second configuration of the civil engineering machine (100) second inclination measurements from the one or more sensors for measuring inclination of the civil engineering machine (100); receiving at the second configuration of the civil engineering machine (100) second load measurements indicating a load of the civil engineering machine from the at least one of the following: one or more actuating units; or one or more sensors; applying a compensation to the received second load measurements, or the determined load capacity model, based on the second inclination measurements; determining an available load capacity of the civil engineering machine based on the determined load capacity model and the compensated second load measurements, or the second load measurements and the compensated determined load capacity model.

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