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(54) Title: A WEIGHING DEVICE

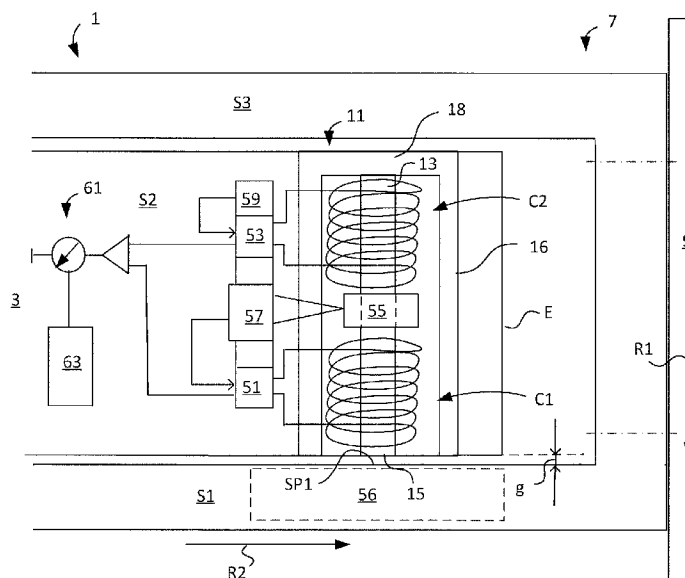


FIG. 5

(57) Abstract: The present invention regards a weighing device (1) having a first portion (3) configured to be mounted on a platform (5) and having a second portion (7) configured to be coupled to an object (9) to be weighed, which object (9) is affected by gravity (G) in a first direction (R1) during use of the weighing device (1). The weighing device (1) comprises a first section (S1) extending from the first portion (3) to the second portion (7) in a second direction (R2); a second section (S2) extending from the first portion (3) to a free end (E); an inductive distance measuring sensor (11) comprising a magnetically conductive core (13) having a first end surface (15); the inductive distance measuring sensor (11) is mounted to the first section (S1), wherein the first end surface (15) of the magnetically conductive core (13) faces a second section plane (SP2) of the second section (S2), or is mounted to the second section (S2), wherein the first end surface (15) of the magnetically conductive core (13) faces a first section plane (SP1) of the first section (S1); the first section

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(S1) being flexible and the second section (S2) being rigid; a gap (g) is provided between the first end surface (15) of the magnetically conductive core (13) and the second section plane (SP2) or between the first end surface (15) of the magnetically conductive core (13) and the first section plane (SP1); the gap (g) exhibits a width which is variable in said first direction (R1) and which corresponds with a distance to be measured by the inductive distance measuring sensor (11).