



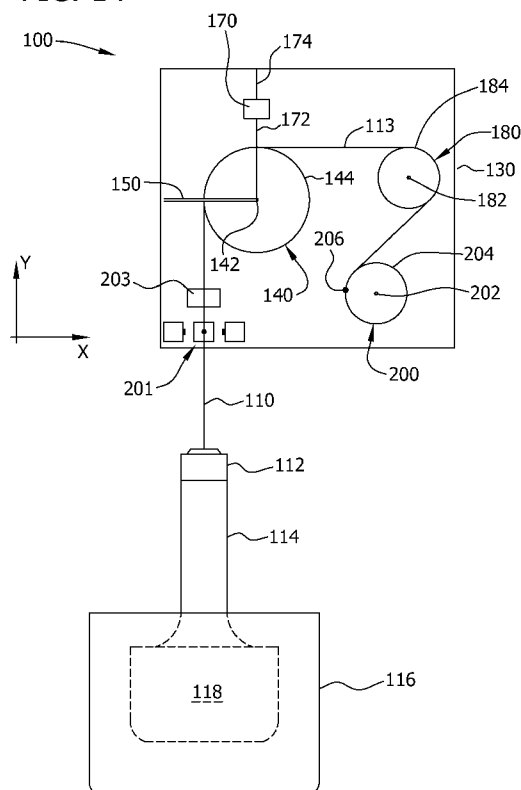
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[Continued on next page]

- (54) Title:** SYSTEMS AND METHODS FOR WEIGHING A PULLED OBJECT

FIG. 14



- (57) Abstract:** Systems and methods are disclosed for measuring the weight of an object coupled to a first end of a cable while pulling the object. The cable is routed over a pulley suspended from a load cell. The force exerted by the cable on the pulley is used to calculate the weight of the object. The second end of the cable is coupled to a drum which when rotated pulls the object by wrapping the cable around the drum. An arm is coupled to the pulley at one end and to a frame at another end. A path travelled by the cable between the pulley and the drum is substantially parallel to a longitudinal axis of the arm. Horizontal force components are transmitted by the arm to the frame and do not affect a force measured by the load cell, thus increasing the accuracy of the calculated weight of the object.



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