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(54) Title: PILE DRIVING ASSEMBLY

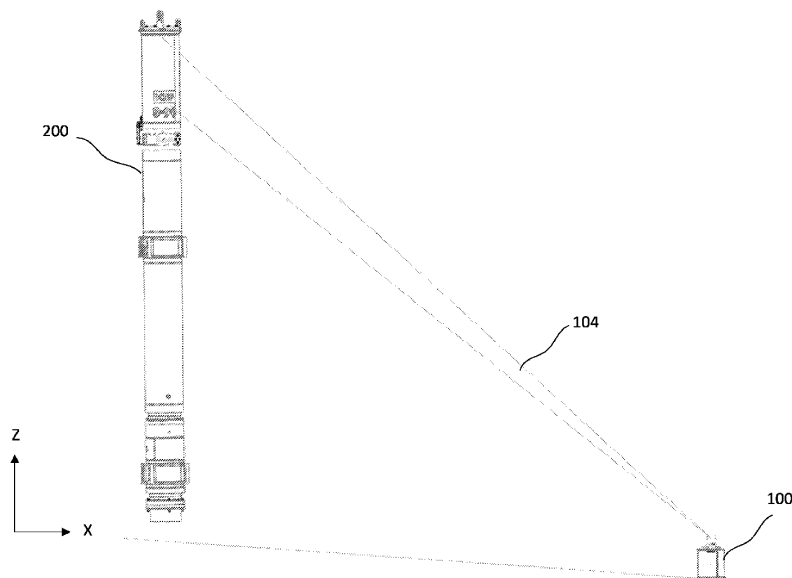


Fig. 1

(57) Abstract: A pile driving assembly for installing a foundation pile (300) into ground comprises an optical system (100) including an image capture device (102) for capturing visual images; and a processing unit (400) configured to receive visual images from the image capture device (102) or the optical system and to process the visual images. The pile driving assembly comprises a pile driving element (200) for driving a foundation pile into the ground. In an operational configuration the optical system is provided at a distance from the pile driving element, such that the image capture device is configured to capture a visual image of at least one point of reference on the pile driving element. The processing unit is configured to determine the penetration of a foundation pile into the ground and/or the penetration direction of the foundation pile into the ground from at least two visual images of the at least one point of reference.

[Continued on next page]

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