

Title (en)

A pile driver, pile drawer and/or drilling machine.

Title (de)

Maschine zum Eintreiben und Entfernen von Pfählen und/oder zum Bohren.

Title (fr)

Machine pour enfoncer et enlever des pieux et/ou pour forer.

Publication

EP 0215998 A2 19870401 (EN)

Application

EP 86100005 A 19860102

Priority

GB 8523644 A 19850925

Abstract (en)

A combined pile driver, pile drawer and drilling machine comprises a carriage (1), a turntable (1A) mounted on the carriage (1), support means (5), lifting means (4) and a mast system (5) comprising two mast units (3). The support means (2) comprises a tubular support bearing (9) which is hinged to the turntable (1A) at (6A) and the lifting means (4) comprises two hydraulic cylinders (6) which are hinged to the turntable (1A) at (6B) and to a bearing sleeve (9A) at (6C). The support means (2) further comprises a mast support (10) which surrounds the bearing (9) and extends through the sleeve (9A) and can be rotated about its own axis by means of an hydraulic cylinder (11) and a coupling (11A). Each mast unit (3) is mounted on the mast support (10) by means of brackets (14) and comprises a guide rail (13), a mast (12) which is slidable on the guide rail (13) by means of an hydraulic cylinder (15) and a cradle (30) which is movable on the mast (12) by means of an hydraulic feed cylinder (28). Each cradle (30) supports a rotary head or percussion head for a drilling tool or the like or a pneumatic hammer for pile driving. One of the masts (12) is also provided with a clamp (16) and a turning unit (17) for pile drawing. The machine can also be used as a crane. A hydraulic jack (37) is provided to support the weight of the mast system when the mast system is in a horizontal position.

IPC 1-7

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IPC 8 full level

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Cited by

EP0457563A3; CN112459059A; CN112360829A; EP0525186A4; CN113859096A; EP1167682A1; EP0424779A1; CN101963046A; EP3536892A1; IT201800001640A1; EP3951129A1; WO9012948A1

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