

Title (en)

CASING MECHANISM TO FORM CASINGS IN SURFACE DRILLING

Title (de)

GEHÄUSEMECHANISMUS ZUR HERSTELLUNG VON GEHÄUSEN BEIM OBERFLÄCHENBOHREN

Title (fr)

MÉCANISME DE BOÎTIER POUR FORMER DES TUBAGES LORS DU PERÇAGE DE SURFACE

Publication

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Application

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Priority

ES 201830546 U 20180417

Abstract (en)

The present invention relates to a casing mechanism, which is included in a drilling rig, to form casings in surface drilling processes and in piles construction, in which one or more portions of tube are driven into the ground, removing the soil and/or other materials from its interior, in order for it to be subsequently filled, preferably with concrete. An advantageous rotation means installed in the drilling rig together with the force directed by the thrust/extraction means towards the ground to be drilled, transferred to the tube to be driven by the displacement structure of the mechanism through the grip piece coupled to it in the drilling rig, allows the casing mechanism to form casings in surface drilling, to achieve a simple and advantageous configuration integrated into said drilling rig.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [XA] US 2015259871 A1 20150917 - DITILLO ALESSANDRO [IT], et al
- [X] CN 102561946 B 20140723 - SUNWARD INTELLIGENT EQUIPMENT, et al
- [X] CN 101382040 A 20090311 - HUNAN SUNWARD INTELLIGENT MACH [CN]
- [X] US 2001009204 A1 20010726 - STANSFIELD LEWIS [GB]
- [A] JP H07301074 A 19951114 - SOILMEC SPA
- [A] US 6047771 A 20000411 - ROEYNESTAD TOM TORALV [NO]
- [A] GB 2358211 A 20010718 - KVAERNER CEMENTATION FOUND LTD [GB], et al

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