Title: SELF-CLIMBING TELESCOPIC CRANE AND METHOD FOR MOUNTING PRE-FABRICATED CONCRETE TOWERS

Título : GRÚA TELESCÓPICA AUTOTREPANTE Y PROCEDIMIENTO DE MONTAJE DE TORRES PREFABRICADAS DE HORMIGÓN

Abstract: The invention relates to a self-climbing telescopic crane and a method for mounting pre-fabricated concrete towers of the type formed by a plurality of modules joined laterally to form multiple frustroconical segments that are subsequently stacked to form the tower. The crane comprises an external vertical column and an internal vertical column that can move vertically via actuators. The upper end of the internal vertical column terminates in a horizontally rotatable capstan associated with a horizontal arm terminating at the opposite end in a pulley through which the hoist cable passes. The main advantage of the invention is that it allows the tower to be mounted from inside same, dispensing with the need for expensive high-range cranes to be operating for long periods, and providing a significant reduction in terms of tower mounting times and costs, as well as allowing towers to be mounted in unfavourable wind conditions.

Resumen: Grúa telescópica autotrepante y procedimiento de montaje de torres prefabricadas de hormigón de las constituidas por una pluralidad de módulos que se unen lateralmente para conformar diversos tramos frustroconínicos que posteriormente se apilan para conformar la torre, que comprende una columna vertical externa y otra interna.