

Title (en)
APPARATUS AND METHOD FOR DRIVING A PILE INTO THE GROUND PRIOR TO LIFTING AND STABILIZING THE FOUNDATIONS OF A BUILDING

Title (de)
VORRICHTUNG UND VERFAHREN ZUM TREIBEN EINES PFAHLS IN DEN BODEN VOR DEM ANHEBEN UND STABILISIEREN DES FUNDAMENTS EINES GEBÄUDES

Title (fr)
APPAREIL ET METHODE POUR ENFONCER UN PIEU DANS LE SOL AVANT DE SOULEVER ET STABILISER LA FONDATION D'UN BATIMENT

Publication
EP 3607148 A4 20210113 (FR)

Application
EP 18781355 A 20180405

Priority
• CA 2963531 A 20170405
• CA 2018050418 W 20180405

Abstract (en)
[origin: WO2018184110A1] Described are an apparatus and method for driving piles prior to lifting and stabilizing foundations that have subsided in unstable ground. A press head, comprising two non-slip arms actuated by a safety lever, is connected to an angle cleat-type foundation piece secured to the foundation by a pair of hydraulic rams in order to drive the piles into the ground as far as the bedrock when the rams contract. The apparatus includes a safety system actuated by the lever for controlling the arms. In order to level the building, other hydraulic rams are installed on each driven pile, all connected in series in order that they may be actuated simultaneously in order to lift the building. When the foundations have been adequately raised and levelled, each pile and the corresponding angle cleat-type foundation piece, both made of steel, are welded in order to stabilize the foundations.

IPC 8 full level
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CPC (source: EP US)
E02D 5/54 (2013.01 - EP US); **E02D 7/16** (2013.01 - US); **E02D 35/005** (2013.01 - EP); **E02D 37/00** (2013.01 - EP); **E04G 23/065** (2013.01 - EP); **E02D 27/48** (2013.01 - EP); **E02D 37/00** (2013.01 - US)

Citation (search report)
• [A] US 2005220544 A1 20051006 - BISSON RAYMOND [CA], et al
• [A] US 5246311 A 19930921 - WEST JOHNNY L [US], et al
• [A] US 4765777 A 19880823 - GREGORY STEVEN D [US]
• See references of WO 2018184110A1

Designated contracting state (EPC)
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