

Title (en)
METHOD AND DEVICE FOR REMOVING A PILE ELEMENT FROM A BASE

Title (de)
VERFAHREN UND VORRICHTUNG ZUM ENTFERNEN EINES PFAHLELEMENTS AUS EINEM BODEN

Title (fr)
PROCÉDÉ ET DISPOSITIF D'ÉLIMINATION D'UN ÉLÉMENT DE PIEU HORS D'UN SOL

Publication
EP 3252234 B1 20181107 (DE)

Application
EP 16172466 A 20160601

Priority
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Abstract (en)
[origin: JP2018021444A] PROBLEM TO BE SOLVED: To provide a method and a device to pull out a pile element from the ground surface. SOLUTION: A position and/or layout of a pile element underground is measured by a detection unit. A first bore reaching a top edge of the pile element is created by a first excavation tool and surrounded by an external guide pipe according to a measurement position. When the first excavation tool is pulled out, the guide pipe is left underground and a second excavation tool with a hollow drill shank is transported to the pile element through the guide pipe. An outer periphery of the pipe element is at least partly bored by the second excavation tool and the pipe element is taken in the drill shank and pulled out from the ground surface. A device to pull out the pile element from the ground surface includes the guide pipe. The guide pipe is disposed so as to be rotated by a mast and can be inserted underground in order to form an exit opening of the pile element. The device has at least one detection unit. The detection unit is designed so as to measure a position and/or layout of the pile element underground. SELECTED DRAWING: Figure 1

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