

Title (en)
SECURING DEVICE FOR SECURING A CIVIL ENGINEERING ELEMENT AND CIVIL ENGINEERING METHOD

Title (de)
SICHERUNGSVORRICHTUNG ZUM SICHERN EINES TIEFBAUELEMENTES UND TIEFBAUVERFAHREN

Title (fr)
DISPOSITIF DE FIXATION PERMETTANT DE FIXER UN ÉLÉMENT DE GÉNIE CIVIL ET PROCÉDÉ DE GÉNIE CIVIL

Publication
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Application
EP 19162495 A 20190313

Priority
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Abstract (en)
[origin: US2020291595A1] The invention relates to a securing means and a method for securing a civil engineering element to a construction machine by means of a flexible securing element, wherein a first end of the flexible securing element is attached to the construction machine and a second end is provided with a connecting link which can pass through a securing lug on the civil engineering element and can be releasably fastened to the construction machine by a connecting means. According to the invention, a detection unit is provided on the connecting means, which detection unit is designed for identifying fastening of the connecting link to the connecting means. The detection unit can generate and output a signal if fastening of the connecting link is identified.

IPC 8 full level
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Citation (opposition)
Opponent : Liebherr-Werk Nenzing GmbH,
• DE 3602609 A1 19870730 - HOFMANN SEBASTIAN [DE], et al
• EP 3228392 A1 20171011 - BAUER MASCHINEN GMBH [DE]
• DE 10046271 B4 20101125 - TAKATA CORP [JP], et al
• EP 0870653 A1 19981014 - TAKATA EUROP GMBH [DE]
• DE 69812493 T2 20040219 - TRW INC [US]
• US 5353482 A 19941011 - ZIAYLEK JR THEODORE [US], et al
• CN 105271082 A 20160127 - XU XIUPING
• CN 201890755 U 20110706 - GUANGXI YUCHAI HEAVY INDUSTRY COMPANY LTD

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