

Title (en)
SAFETY DEVICE AND CONSTRUCTION MACHINE

Title (de)
SICHERHEITSVORRICHTUNG UND BAUMASCHINE

Title (fr)
DISPOSITIF DE SÉCURITÉ ET ENGIN DE CHANTIER

Publication
EP 3892781 A1 20211013 (EN)

Application
EP 20759411 A 20200121

Priority
• JP 2019027259 A 20190219
• JP 2020001805 W 20200121

Abstract (en)
A safety device includes: a contour sensor (101) which acquires contour data representing a contour of a landform around a hydraulic excavator (1); a determination part (112) which determines, based on the contour data, whether the landform satisfies an execution criterion of executing a turning-over prevention control for preventing the hydraulic excavator (1) from being turned over to a slope extending in a specific direction therearound; and a lowering control part (113) which lowers a leading end of a working device to the slope when the determination part (112) determines that the execution criterion is satisfied.

IPC 8 full level
E02F 3/43 (2006.01); **E02F 9/24** (2006.01)

CPC (source: EP US)
E02F 3/435 (2013.01 - EP); **E02F 9/2033** (2013.01 - EP); **E02F 9/24** (2013.01 - EP US); **E02F 9/262** (2013.01 - EP US); **E02F 9/265** (2013.01 - EP); **E02F 3/32** (2013.01 - US); **E02F 3/439** (2013.01 - US)

Cited by
US2022018095A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3892781 A1 20211013; **EP 3892781 A4 20220302**; CN 113272499 A 20210817; JP 2020133223 A 20200831; US 2022018095 A1 20220120; WO 2020170687 A1 20200827

DOCDB simple family (application)
EP 20759411 A 20200121; CN 202080008702 A 20200121; JP 2019027259 A 20190219; JP 2020001805 W 20200121; US 202017427373 A 20200121