

Title (en)
SAFETY SYSTEM FOR CONTROLLING A DANGEROUS AREA OF AN EXCAVATION MACHINE AND EXCAVATION MACHINE COMPRISING THE SAME

Title (de)
SICHERHEITSSYSTEM ZUR STEUERUNG EINES GEFAHRENBereichs EINES BAGGERS UND BAGGER DAMIT

Title (fr)
SYSTÈME DE SÉCURITÉ PERMETTANT DE CONTRÔLER UNE ZONE DANGEREUSE D'UNE MACHINE D'EXCAVATION ET MACHINE D'EXCAVATION COMPRENANT CELUI-CI

Publication
EP 2949859 B1 20170802 (EN)

Application
EP 15169672 A 20150528

Priority
IT MI20141011 A 20140530

Abstract (en)
[origin: EP2949859A1] Safety system for controlling a dangerous area of an excavation machine (1) provided with a guide antenna (3), a rotary head (5) coupled in a sliding manner on the guide antenna (3) and arranged for supporting and moving an excavation battery (6), the safety system comprising: - a shield (9) couplable with the machine (1) so as to extend in a substantially radial direction around the excavation battery (6) defining an upper area of the guide antenna (3) and a lower area of the guide antenna (3) where the excavation occurs, the shield (9) being shaped so as to stop the raising of the material projected from the lower area towards the upper area. - a plurality of sensitive devices (8) intended to be positioned in the upper area and configured for generating a monitoring area, for detecting the presence and/or the passage of a body in the monitoring area and for generating, following such detection, a corresponding control signal adapted to at least stop the rotation of the excavation battery (6), said sensitive devices (8) being arranged on the machine (1) so that the monitoring area at least partially comprises the dangerous area.

IPC 8 full level
E21B 41/00 (2006.01); **E21B 7/02** (2006.01); **E21B 21/015** (2006.01); **E21B 44/00** (2006.01)

CPC (source: EP US)
E21B 7/022 (2013.01 - EP); **E21B 21/015** (2013.01 - EP US); **E21B 41/0021** (2013.01 - EP); **E21B 44/00** (2013.01 - EP)

Cited by
CN109469454A; CN106351596A; CN109057734A; CN113931659A; CN117365284A

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

DOCDB simple family (publication)
EP 2949859 A1 20151202; EP 2949859 B1 20170802

DOCDB simple family (application)
EP 15169672 A 20150528