

Title (en)
CONSTRUCTION MACHINE

Title (de)
BAUMASCHINE

Title (fr)
ENGIN DE CHANTIER

Publication
EP 3974585 A4 20230125 (EN)

Application
EP 20927702 A 20200324

Priority
JP 2020012951 W 20200324

Abstract (en)
[origin: EP3974585A1] A hydraulic excavator (1) includes: a blade (20) rotatably mounted on a lower traveling body (2) and extending in the left-and-right direction; a mast (24) mounted on either a left end portion (20C) or a right end portion (20E) of the blade (20) and extending in the vertical direction; and a prism (25) provided on an upper end side of the mast (24) to detect the position of the blade (20). The hydraulic excavator (1) is also provided with a left proximity sensor (27) and a right proximity sensor (28) detecting whether the mast (24) is mounted either on the left end portion (20C) or the right end portion (20E) of the blade (20), and a rotation limiting device (29) limiting the revolving range for allowing an upper revolving structure (4) to revolve, depending on the mounting position of the mast (24) detected by the left proximity sensor (27) and the right proximity sensor (28).

IPC 8 full level
E02F 9/12 (2006.01); **E02F 3/32** (2006.01); **E02F 9/24** (2006.01); **E02F 3/815** (2006.01)

CPC (source: EP)
E02F 3/325 (2013.01); **E02F 3/435** (2013.01); **E02F 3/847** (2013.01); **E02F 3/964** (2013.01); **E02F 9/123** (2013.01); **E02F 9/2033** (2013.01); **E02F 3/815** (2013.01); **E02F 9/265** (2013.01)

Citation (search report)

- [A] JP 2020012255 A 20200123 - HITACHI KENKI TEIERA KK
- [A] EP 0955415 A1 19991110 - HITACHI CONSTRUCTION MACHINERY [JP]
- [A] JP 6663404 B2 20200311
- See references of WO 2021192020A1

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

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KH MA MD TN

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EP 3974585 A1 20220330; **EP 3974585 A4 20230125**; **EP 3974585 B1 20240117**; JP 7201877 B2 20230110; JP WO2021192020 A1 20210930; WO 2021192020 A1 20210930

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