

Title (en)  
TIP ATTACHMENT DISCRIMINATION DEVICE

Title (de)  
VORRICHTUNG ZUR UNTERSCHIEDUNG VON SPITZENBEFESTIGUNGEN

Title (fr)  
DISPOSITIF DE DIFFÉRENCIATION D'ACCESSOIRES DE POINTE

Publication  
**EP 3723039 A4 20210421 (EN)**

Application  
**EP 18900720 A 20181204**

Priority  
• JP 2018007324 A 20180119  
• JP 2018044473 W 20181204

Abstract (en)  
[origin: EP3723039A1] A work device 20 includes, at a tip, one of different types of tip attachments 25 that are replaceable with each other. A camera 40 can capture an image within a movable range of the tip attachment 25. The work device posture sensor 30 detects the posture of the work device 20. A controller 60 sets a detection frame (F) that is a frame of a range including the tip attachment 25 in the image captured by the camera 40 based on the posture of the work device 20 detected by the work device posture sensor 30. The controller 60 discriminates the type of the tip attachment 25 based on the image of the tip attachment 25 within the detection frame (F).

IPC 8 full level  
**G06T 7/00** (2017.01); **E02F 9/26** (2006.01); **E02F 9/28** (2006.01)

CPC (source: EP US)  
**E02F 3/36** (2013.01 - EP); **E02F 3/96** (2013.01 - EP US); **E02F 9/264** (2013.01 - EP US); **E02F 9/267** (2013.01 - EP); **E02F 9/28** (2013.01 - EP)

Citation (search report)  
• [XD] JP 2017157016 A 20170907 - KOBE STEEL LTD, et al  
• [I] EP 2902550 A1 20150805 - VOLVO CONSTR EQUIP AB [SE]  
• [A] US 2017094154 A1 20170330 - KAWAMOTO SHUN [JP], et al  
• [A] US 2017138017 A1 20170518 - HALEPATALI PRAVEEN [US], et al

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 3723039 A1 20201014; EP 3723039 A4 20210421**; CN 111587448 A 20200825; JP 2019125314 A 20190725; JP 7114907 B2 20220809; US 2020347579 A1 20201105; WO 2019142523 A1 20190725

DOCDB simple family (application)  
**EP 18900720 A 20181204**; CN 201880086353 A 20181204; JP 2018007324 A 20180119; JP 2018044473 W 20181204; US 201816962118 A 20181204