

Title (en)  
EXCAVATOR

Title (de)  
BAGGER

Title (fr)  
EXCAVATRICE

Publication  
**EP 4012114 A4 20221102 (EN)**

Application  
**EP 20849164 A 20200807**

Priority  
• JP 2019146180 A 20190808  
• JP 2020030521 W 20200807

Abstract (en)  
[origin: EP4012114A1] An excavator which suitably utilizes hydraulic oil flowing out of a boom cylinder during excavation is provided. An excavator includes a boom; an arm; a boom cylinder configured to drive the boom; and an arm cylinder configured to drive the arm. During excavation, the excavator increases a pressure at a rod side with respect to the boom cylinder and supplies the pressure to the arm cylinder.

IPC 8 full level  
**E02F 9/22** (2006.01); **E02F 3/43** (2006.01); **F15B 11/028** (2006.01); **F15B 21/14** (2006.01)

CPC (source: CN EP)  
**E02F 3/435** (2013.01 - EP); **E02F 9/22** (2013.01 - CN); **E02F 9/2217** (2013.01 - EP); **E02F 9/2292** (2013.01 - EP); **E02F 9/2296** (2013.01 - EP); **F15B 11/17** (2013.01 - CN); **F15B 13/02** (2013.01 - CN); **F15B 21/08** (2013.01 - CN); **F15B 21/14** (2013.01 - EP); **F15B 2211/20523** (2013.01 - EP); **F15B 2211/20576** (2013.01 - EP); **F15B 2211/214** (2013.01 - EP); **F15B 2211/3057** (2013.01 - EP); **F15B 2211/3059** (2013.01 - EP); **F15B 2211/30595** (2013.01 - EP); **F15B 2211/327** (2013.01 - EP); **F15B 2211/71** (2013.01 - EP); **F15B 2211/7128** (2013.01 - EP); **F15B 2211/7142** (2013.01 - EP); **F15B 2211/88** (2013.01 - EP)

Citation (search report)  
• [XY] US 2019063039 A1 20190228 - HIJIKATA SEIJI [JP], et al  
• [Y] EP 1605168 A1 20051214 - HITACHI CONSTRUCTION MACHINERY [JP]  
• See references of WO 2021025170A1

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4012114 A1 20220615; EP 4012114 A4 20221102**; CN 114008276 A 20220201; CN 114008276 B 20230908;  
JP WO2021025170 A1 20210211; WO 2021025170 A1 20210211

DOCDB simple family (application)  
**EP 20849164 A 20200807**; CN 202080045357 A 20200807; JP 2020030521 W 20200807; JP 2021537412 A 20200807