

Title (en)  
Excavator with pivoting kelly

Title (de)  
Aushubmaschine mit schwenkbarem Kellygestänge

Title (fr)  
Machine d'excavation à kelly pivotable

Publication  
**EP 2204500 B1 20160824 (FR)**

Application  
**EP 09180862 A 20091229**

Priority  
FR 0859115 A 20081230

Abstract (en)  
[origin: EP2204500A1] The machine (10) has a mast (14) arranged in a longitudinal direction, and a bar (18) i.e. kelly, whose end (18a) is provided with a ground excavation tool (20) i.e. soil-mixing cutter. A carriage (16) includes a holder unit for holding the bar relative to the carriage. The carriage moves the bar along the longitudinal direction of the mast. The holder unit occupies a locked state in which the bar is prevented from moving in translation relative to the carriage, and an unlocked state in which the bar is free to move in translation relative to the carriage. Independent claims are also included for the following: (1) a method of raising a bar of a ground excavation machine (2) a ground excavation method.

IPC 8 full level  
**E02D 7/16** (2006.01); **E02D 13/04** (2006.01); **E02D 17/13** (2006.01); **E21B 19/083** (2006.01)

CPC (source: EP US)  
**E02D 7/16** (2013.01 - EP US); **E02D 13/04** (2013.01 - EP US); **E02D 17/13** (2013.01 - EP US); **E21B 19/083** (2013.01 - EP US)

Citation (examination)

- JP H10317868 A 19981202 - NIPPON SHARYO SEIZO KK
- JP H02261189 A 19901023 - SANWA KIZAI CO LTD
- WO 2006041154 A1 20060420 - KATAOKA HIROFUMI [JP], et al

Cited by  
EP3919684A1; CN113756384A; US11466420B2

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DOCDB simple family (publication)  
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