

Title (en)
Hydraulic excavator for shield tunneling machine

Title (de)
Hydraulischer Abbaubagger für Tunnelschildmaschine

Title (fr)
Excavateur hydraulique pour machine d'avancement de tunnel à bouclier

Publication
EP 0649973 B1 19990203 (DE)

Application
EP 94115326 A 19940929

Priority
DE 4335753 A 19931020

Abstract (en)
[origin: DE4335753C1] Hydraulically driven mining excavator for a driving apparatus, provided with a longitudinal conveyor unit for excavated material, for underground driving. The mining excavator has a boom to which a working tool which can be used as a loading tool can be attached at least directly at one end. At the other end, the boom is swivellable about a pivot bearing attached to a top supporting part of the driving apparatus. In this arrangement, a hydraulic cylinder is provided to vary the boom inclination, and the working tool or the means which can be attached to the boom at one end can be swivelled about a transverse axis arranged on the boom by means of at least one further hydraulic cylinder supported on the boom, and the boom (21) is suspended by means of a guide-bar system on a bracket plate (16) forming a part of the pivot bearing (15). The guide-bar system consists of a link (18) pivotable via hydraulic cylinder (19) and of the hydraulic cylinder (20) for varying the boom inclination. By longitudinal adjustment, the hydraulic cylinder (20) can be set as a parallel guide bar to the link (18). <IMAGE>

IPC 1-7
E21D 9/08; **E21D 9/12**

IPC 8 full level
E02F 3/32 (2006.01); **E02F 7/00** (2006.01); **E21C 37/24** (2006.01); **E21D 9/08** (2006.01); **E21D 9/10** (2006.01); **E21D 9/12** (2006.01)

CPC (source: EP KR)
E21D 9/0875 (2016.01 - EP KR); **E21D 9/128** (2013.01 - EP KR)

Cited by
CN107893661A; CN103071576A; EP1807607A4

Designated contracting state (EPC)
AT CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0649973 A2 19950426; **EP 0649973 A3 19950809**; **EP 0649973 B1 19990203**; AT E176518 T1 19990215; CN 1043918 C 19990630; CN 1127322 A 19960724; DE 4335753 C1 19950105; DE 4335753 C2 19980709; DE 59407767 D1 19990318; ES 2128481 T3 19990516; JP H07150892 A 19950613; KR 950011779 A 19950516

DOCDB simple family (application)
EP 94115326 A 19940929; AT 94115326 T 19940929; CN 94117565 A 19941020; DE 4335753 A 19931020; DE 59407767 T 19940929; ES 94115326 T 19940929; JP 25498894 A 19941020; KR 19940026736 A 19941019