

Title (en)
EARTH PRESSURE SHIELD

Publication
EP 0288707 B1 19901114 (DE)

Application
EP 88103959 A 19880312

Priority
DE 3714617 A 19870501

Abstract (en)
[origin: US4844656A] The earth pressure shield contains a front working compartment having a digging tool and formed by a separating wall. An annular space is formed in the front working compartment with a top region connected with a regulated pressurized air feed and with a bottom region open to the digging tool so that dug or mined earth material is removable with the help of a conveyor unit. At least one fluid pipe is guided from a fluid chamber with a level controller and a fluid feeder to a fluid outlet open to the digging or mining tool in the working compartment. An especially reliable operation is attained when a bulkhead space is provided by partitioning behind the working compartment and/or the circular space formed with an immersed wall. This bulkhead space is connected in its upper region with the top region of the annular space by an opening in the separating wall and includes the fluid chamber in its lower region.

IPC 1-7
E21D 9/04; **E21D 9/08**

IPC 8 full level
E21D 9/06 (2006.01); **E21D 9/04** (2006.01); **E21D 9/08** (2006.01); **E21D 9/087** (2006.01); **E21D 9/12** (2006.01)

CPC (source: EP US)
E21D 9/0879 (2016.01 - EP US)

Cited by
EP0768447A1; US6089791A

Designated contracting state (EPC)
DE FR

DOCDB simple family (publication)
EP 0288707 A1 19881102; **EP 0288707 B1 19901114**; CN 1008827 B 19900718; CN 87105328 A 19881228; DE 3861048 D1 19901220; DK 234188 A 19881102; DK 234188 D0 19880428; JP H0613832 B2 19940223; JP S63280193 A 19881117; US 4844656 A 19890704

DOCDB simple family (application)
EP 88103959 A 19880312; CN 87105328 A 19870729; DE 3861048 T 19880312; DK 234188 A 19880428; JP 3296688 A 19880217; US 17519188 A 19880330