

Title (en)  
CUTTER DRIVE SHIELD AND METHOD FOR DRIVING AND/OR LINING TUNNELS OR THE LIKE

Publication  
**EP 0258699 B1 19901024 (DE)**

Application  
**EP 87111705 A 19870812**

Priority  

- DE 3629729 A 19860901
- DE 3726038 A 19870805
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Abstract (en)  
[origin: US4830535A] The knife-shield driving device consists of drive knives (10, 12, 14, 16, 18) which can be acted on via a pushing device and are guided with respect to each other on their longitudinal sides. The guides consist of guide yokes (20) and wedge elements (30) which are guided in said guide yokes (20). For the change in direction of the driving it is sufficient to select any desired suitable guide knife (14) which is controlled in direction during the driving via hydraulic presses (34, 36) arranged on the adjacent knives (12, 16). In this connection, the guide yoke (20) slides on the wedge element (30) of the adjacent knife (12) and the wedge element of the knife (14) slides in the guide yoke on the knife (16). After removal of the hydraulic presses (34) and (36), the adjacent knives can be driven forward starting in each case, from the directly adjacent knife (12) or (16) respectively, as a result of which, via the guidance of the yokes on the wedge surfaces, an automatic alignment of the knives which are driven forward one after the other is effected with respect to the initial drive knife (14). With the system at rest, i.e. when all knives have been driven forward, the knives are self-supporting as a result of mutual support on the longitudinal sides so that guide arches supporting the knives during the driving can be lowered in order, after forward travel, to again assume the supporting function for the knives which are again to be driven forward.

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**E21D 9/06**

IPC 8 full level  
**E21D 9/06** (2006.01)

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Cited by  
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