

Title (en)  
Rock crusher with grid-type grate and tunneling shield equipped with this crusher

Title (de)  
Steinbrecher mit Gitterrost und damit ausgerüstete Schildvortriebseinrichtung

Title (fr)  
Concasseur avec grille et bouclier d'avancement de tunnel muni d'un tel concasseur

Publication  
**EP 0575708 B1 19960228 (DE)**

Application  
**EP 93105131 A 19930329**

Priority  
DE 4221252 A 19920626

Abstract (en)  
[origin: EP0575708A1] The invention provides an improved rock crusher for a tunnelling machine. The rock crusher is a constructional unit comprising a front wall, a rear wall in which a grid-type grate is located, and a bottom plate connected to the rear wall. The crushing tools and their actuating devices are arranged between the front wall and rear wall. Located in the rear wall 1 are openings 6 in the grid-type grate which are bent such that grid-type grate clearers 5, arranged on the side cheeks of the tool holders 2, can engage in the slots. The bottom guiding plate 7 is shaped such that it also rises to the centre between the crushing tools 12 which have been brought together. By this means, rocks are prevented from jamming in the grid-type grate or between crushing tools and guiding plate. The further embodiment envisages that the rock crusher may be pivoted, if the need arises, from a working position into a stand-by position, which in the circumferential direction is lateral. Because of this pivoting, in order to absorb radial forces when crushing the rocks there are provided pressure rollers 14 which bear against a guiding ring 13 on a perpendicular shield wall 11. <IMAGE>

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

IPC 8 full level  
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CPC (source: EP)  
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Cited by  
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