

Title (en)  
Cutting wheel apparatus for excavating trenches

Title (de)  
Schlitzwandfräse

Title (fr)  
Appareil excavateur à roues pour creuser des tranchées

Publication  
**EP 0849403 B1 20000913 (DE)**

Application  
**EP 97119286 A 19971104**

Priority  
DE 19652835 A 19961218

Abstract (en)  
[origin: US5924222A] The invention relates to a trench wall cutter with a cutting frame and a gear shield attached thereto. There is at least one cutting wheel positioned to turn on the opposite shield sides, and on it roller-shaped excavation tools distributed over the periphery are pivotally mounted. When the cutting wheel is rotating the tools form a cutting wheel cutting surface which runs essentially axially parallel to the axis of rotation of the cutting wheel. To accommodate horizontal forces, at least one additional roller is pivotally mounted on each cutting wheel, the axis of the additional roller being directed substantially radially with respect to the axis of rotation of the cutting wheel. One jacket surface of the roller on the radial face side of the cutting wheel away from the gear shield projects in the direction of the axis of rotation of the-cutting wheel.

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