

Title (en)  
Comminuting apparatus.

Title (de)  
Zerkleinerungsmaschine.

Title (fr)  
Appareil broyeur.

Publication  
**EP 0110665 A2 19840613 (EN)**

Application  
**EP 83307148 A 19831123**

Priority  
• GB 8233900 A 19821127  
• GB 8314967 A 19830531

Abstract (en)  
The invention relates particularly to roller crushers, in which there is a need to positively locate crusher members such as teeth on the contra-rotating rolls. Hitherto, teeth have been formed on an annular disc, and the disc secured to a roll body or shaft by welding or by pouring concrete down aligned lobes on the discs. Such constructions are effective in locating the teeth against movement relative to the roll body or shaft but make extremely difficult the task of removing the teeth when worn or damaged to an extent requiring their replacement. The object of the invention is to avoid such difficulties, which objective is met by a construction of roll comprising a body portion in the periphery of which are formed a number of parallel longitudinal grooves (6), a number of tooth bearing members (8, 12) each having a surface to fit closely the periphery or part of the periphery of the body, and each having at least one projection (7) from that surface of a shape adapted to fit the shape of a groove, and abutment means (9, 10) at each end of the body whereby the tooth bearing members are a sliding fit on the body and are located in their operative position by the abutment means, the engagement of the projections in the grooves and the abutting side-by-side relationship of adjacent tooth bearing members.

IPC 1-7  
**B02C 4/30**; **B02C 4/08**; **B02C 18/28**

IPC 8 full level  
**B02C 4/08** (2006.01); **B02C 4/30** (2006.01); **B02C 18/28** (2006.01)

CPC (source: EP)  
**B02C 4/08** (2013.01); **B02C 4/30** (2013.01); **B02C 18/28** (2013.01)

Cited by  
CN107138214A; EP0246775A3; CN108465514A; US5660601A; FR2819737A1; CN103372477A; AT403443B; CN103127980A; DE4123967A1; CN107716057A; AU762265B2; DE102013207092A1; CN112934343A; FR2943630A1; CN108160289A; CN117105657A; EP0137496A3; DE102015206957B3; CN106040352A; AU2016202394B2; US6953166B2; US10399081B2; WO0243867A1; WO8904719A1; WO2010112425A1; WO2024082030A1

Designated contracting state (EPC)  
DE FR GB SE

DOCDB simple family (publication)  
**EP 0110665 A2 19840613**; **EP 0110665 A3 19850911**; **EP 0110665 B1 19870610**; DE 3371966 D1 19870716

DOCDB simple family (application)  
**EP 83307148 A 19831123**; DE 3371966 T 19831123