

Title (en)  
FINE GRINDER

Title (de)  
FEINSTZERKLEINERER

Title (fr)  
BROYEUR FIN

Publication  
**EP 3515602 B1 20191106 (DE)**

Application  
**EP 17777524 A 20170920**

Priority  
• DE 202016105242 U 20160920  
• EP 2017073793 W 20170920

Abstract (en)  
[origin: WO2018054982A1] The invention relates to a comminution device (1), comprising a plurality of first cutting elements (24) with first serrated cutting edges (40) which are arranged on a first circular path; and at least one second cutting element (26) with a second serrated cutting edge (44) which corresponds to the first serrated cutting edges (44) for separating material to be cut, wherein the second cutting element (26) can be moved about a rotational axis (A) on a second circular path which is concentric to the first circular path. The second serrated cutting edge (44) has a plurality of teeth (100), and each tooth has a radially inner flank (102) and a radially outer flank (104) which form a respective angle ( $\alpha$ ,  $\beta$ ) relative to the rotational axis (A). The device further has a drive (16) for rotating the second cutting element (26) about the rotational axis (A) and an adjusting mechanism (60), by means of which the plurality of first cutting elements (24) and the second cutting element (26) can be moved relative to one another axially in the direction of the rotational axis (A) such that a cutting gap between the cutting elements can be adjusted.

IPC 8 full level  
**B02C 18/00** (2006.01); **B02C 18/06** (2006.01); **B02C 18/16** (2006.01); **B02C 18/18** (2006.01)

CPC (source: EP KR US)  
**B02C 18/0092** (2013.01 - EP KR US); **B02C 18/06** (2013.01 - EP KR US); **B02C 18/16** (2013.01 - EP KR US); **B02C 18/18** (2013.01 - EP KR US); **B02C 2018/188** (2013.01 - US); **B02C 2201/06** (2013.01 - KR)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**DE 202016105242 U1 20171222**; BR 112019005314 A2 20190702; CN 109906117 A 20190618; CN 109906117 B 20210312; EP 3515602 A1 20190731; EP 3515602 B1 20191106; ES 2767726 T3 20200618; JP 2019529096 A 20191017; JP 6828144 B2 20210210; KR 102394355 B1 20220504; KR 20190057310 A 20190528; PL 3515602 T3 20200518; US 11253864 B2 20220222; US 2019210034 A1 20190711; WO 2018054982 A1 20180329

DOCDB simple family (application)  
**DE 202016105242 U 20160920**; BR 112019005314 A 20170920; CN 201780067236 A 20170920; EP 17777524 A 20170920; EP 2017073793 W 20170920; ES 17777524 T 20170920; JP 2019515340 A 20170920; KR 20197009377 A 20170920; PL 17777524 T 20170920; US 201716334485 A 20170920