

Title (en)
IMPACT CRUSHER

Title (de)
PRALLBRECHER

Title (fr)
CONCASSEUR À PERCUSSION

Publication
EP 3624948 A1 20200325 (DE)

Application
EP 18726123 A 20180517

Priority
• DE 102017110758 A 20170517
• EP 2018062982 W 20180517

Abstract (en)
[origin: WO2018211029A1] The invention relates to an impact crusher for mineral material, comprising: a. a crusher housing (2); b. a reversible rotor (3) having a horizontal axis of rotation (4) for slinging mineral material against wearing bodies (19) in the crusher housing (2); c. a drive for driving the rotor (3); d. a lower impact grinding space (16), which is delimited by at least one impact unit (21), which can be moved relative to the crusher housing (2) and to the rotor (3), the rotor (3) being arranged in the impact grinding space (16); e. at least one adjusting device (24) for setting the distance of the impact unit (21) from the rotor (3); f. an upper impact space (15), which adjoins the lower impact grinding space (16) in the upward direction and which has an inlet opening (5) for the mineral material to be comminuted, the upper impact space (15) having an upper height region (H1) adjoining the inlet opening (5), a middle height region (H2) adjoining the upper height region, and a lower height region (H3), which adjoins the impact grinding space (16), each height region (H1, H2, H3) having a horizontally measured inner width (B1), the middle height region (H2) being the region having the greatest inner width (B1) and, at the widest point of the middle height region, which lies above the striking circle (17) of the rotor (3), having a maximum width (B1), which is greater than the diameter (D1) of the striking circle (17) of the rotor (3).

IPC 8 full level
B02C 13/09 (2006.01); **B02C 13/282** (2006.01); **B02C 21/02** (2006.01)

CPC (source: EP US)
B02C 13/095 (2013.01 - EP US); **B02C 13/282** (2013.01 - EP US); **B02C 21/02** (2013.01 - US); **B02C 21/026** (2013.01 - EP)

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2018211029 A1 20181122; CN 110636905 A 20191231; DE 102017110758 A1 20181122; DE 102017110758 B4 20190221; EP 3624948 A1 20200325; EP 3624948 B1 20240626; EP 3624948 C0 20240626; JP 2020518453 A 20200625; JP 6967142 B2 20211117; US 11691153 B2 20230704; US 2020094258 A1 20200326

DOCDB simple family (application)
EP 2018062982 W 20180517; CN 201880032430 A 20180517; DE 102017110758 A 20170517; EP 18726123 A 20180517; JP 2020512088 A 20180517; US 201816609134 A 20180517