

Title (en)
ROLL CRUSHER OF COOLER DEVICE

Title (de)
WÄLZENBRECHER FÜR EINE KÜHLERVORRICHTUNG

Title (fr)
CONCASSEUR À CYLINDRES DE DISPOSITIF DE REFROIDISSEMENT

Publication
EP 3345680 B2 20230524 (EN)

Application
EP 16841089 A 20160823

Priority
• CN 201510547111 A 20150831
• JP 2016003831 W 20160823

Abstract (en)
[origin: EP3345680A1] Provided is a roll crusher of a cooler apparatus, the roll crusher being capable of leveling out temporal changes in the roll load. A roll crusher 15 of a cooler apparatus 1 includes a plurality of load-reducing rolls 15a and 15b. The load-reducing rolls 15a and 15b are arranged side by side in a conveying direction such that a gap S1 is formed therebetween, and are rotated about respective rotational axes L1 and L2 by corresponding rotating units to crush cement. The load-reducing rolls 15a and 15b include a plurality of crushing rings 22 and 23 and a plurality of crushing rings 32 and 33, respectively. Crushing teeth 24 and 27 are formed on outer peripheral surfaces of the crushing rings 22 and 23 at a regular pitch p1, and crushing teeth 34 and 35 are formed on outer peripheral surfaces of the crushing rings 32 and 33 at a regular pitch p2. The crushing teeth 27 and 35 are arranged such that they are shifted relative to the adjacent crushing teeth 24 and 34 in a circumferential direction.

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

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

Citation (opposition)
Opponent :
WO 02087767 A1 20021107 - KRUPP ROERDERTECHNIK GMBH [DE], et al

Cited by
CN112403592A

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)
EP 3345680 A1 20180711; **EP 3345680 A4 20190313**; **EP 3345680 B1 20200527**; **EP 3345680 B2 20230524**; CN 106475180 A 20170308; DK 3345680 T3 20200803; DK 3345680 T4 20230612; JP 6886403 B2 20210616; JP WO2017038049 A1 20180614; MY 192199 A 20220805; TW 201722558 A 20170701; TW I636830 B 20181001; WO 2017038049 A1 20170309

DOCDB simple family (application)
EP 16841089 A 20160823; CN 201510547111 A 20150831; DK 16841089 T 20160823; JP 2016003831 W 20160823; JP 2017537530 A 20160823; MY PI2018700806 A 20160823; TW 105126754 A 20160822