

Title (en)
Process for milling crude lignite

Title (de)
Verfahren zur Mahlung von Rohbraunkohle

Title (fr)
Procédé pour le broyage du lignite brut

Publication
EP 0579214 B1 19970611 (DE)

Application
EP 93111318 A 19930714

Priority
DE 4223151 A 19920714

Abstract (en)
[origin: EP0579214A1] In the grinding of brown coal to fine coal, involving initial drying of the coal at 70-85 deg.C, the dried coal is ground in an air flow roller miller, through which a cold gas (esp. cold and/or ambient air) is passed to cool the coal particles from 70-85 deg.C to below 60 deg.C.. A rotating fluidised zone of cold gas and brown coal particles is produced in the outer annular space of the mill which contains a grinding table (2), grinding rollers (3) and a blade ring (17). Cooling of the coal particles is controlled by the inflow velocity (esp. 40-80 m/sec.) and/or the temp. of the cold gas (18). The cold gas and the coal particles form a gas/dust mixt. which is fed to a classifier, esp. integrated in the mill.

IPC 1-7
B02C 15/00; **C10F 7/02**

IPC 8 full level
B02C 15/14 (2006.01); **B02C 15/00** (2006.01); **B02C 21/00** (2006.01); **B02C 23/02** (2006.01); **B02C 23/06** (2006.01); **C10F 7/02** (2006.01)

CPC (source: EP US)
B02C 15/00 (2013.01 - EP US); **C10F 7/02** (2013.01 - EP US); **B02C 2015/002** (2013.01 - EP US)

Citation (examination)
• DE 3734359 A1 19890420 - RHEINISCHE BRAUNKOHLN AG [DE]
• Firmenprospekt "Wälzmühlen-Roller Grinding Mills" der Loesche GmbH, 2/84

Cited by
EP2524729A1; CN104039455A; DE102005040519B4; EA012659B1; WO2012028273A1; US8517290B2; WO2012160320A1; DE202021002483U1; US8100351B2; WO2012159776A1; WO2007022837A1; WO2015193100A1; EP2985081A1; US10702873B2

Designated contracting state (EPC)
DE ES GR

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EP 0579214 A1 19940119; **EP 0579214 B1 19970611**; **EP 0579214 B2 20040825**; AU 4193093 A 19940203; AU 663790 B2 19951019; CA 2100490 A1 19940115; CN 1033218 C 19961106; CN 1092700 A 19940928; CZ 140093 A3 19940316; CZ 283804 B6 19980617; DE 4223151 A1 19940120; DE 4223151 C2 19941110; DE 59306716 D1 19970717; ES 2102557 T3 19970801; ES 2102557 T5 20050416; GR 3024117 T3 19971031; RU 2109569 C1 19980427; SK 279856 B6 19990413; SK 74093 A3 19940202; US 5353997 A 19941011

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