

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

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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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