

Title (en)

COAL BRIQUETS WITH DIMINISHED WATER ABSORPTION, AND PROCESS FOR MANUFACTURING SAME

Publication

**EP 0368041 B1 19920108 (DE)**

Application

**EP 89119246 A 19891017**

Priority

DE 3836940 A 19881029

Abstract (en)

[origin: EP0368041A1] Coal briquets bound by starch or starch derivatives, having a reduced water absorption capacity and containing, based on starch, 0.2 to 10% by weight of organosilicon compounds obtainable by mixing a methylpolysiloxanol, in which up to 10% of the methyl groups may be replaced by phenyl groups, with a silane of the formula  $R_{<3>-Si(OR_{<2>})_3$  where  $R_{<2>}$  is a lower alkyl radical having 1 to 4 carbon atoms,  $R_{<3>}$  is an aminoalkyl radical having 1 to 6 carbon atoms or the  $H_2N-(CH_2)_xR_{<4>}(CH_2)_y-$  radical where  $R_{<4>}$  is oxygen, sulphur, -NH- or -NH-CH<sub>2</sub>-CH<sub>2</sub>-NH-,  $x \geq 3$  and  $y \geq 2$ , or an epoxyalkyl radical of the formula  $<IMAGE>$  where n is an integer from 1 to 6, with one another in such amounts that one SiOH group from the polysiloxanol corresponds to  $> 1$  to 3  $OR_{<2>}$  groups, and the mixture is warmed, if desired, to temperatures of at least 50 DEG C. The invention furthermore relates to a process for the production of the briquets by suitable admixing of the abovementioned organosilicon compounds.

IPC 1-7

**C10L 5/14**

IPC 8 full level

**C10L 5/14** (2006.01)

CPC (source: EP)

**C10L 5/14** (2013.01)

Cited by

WO2012007385A1; CN102971403A; CN102959058A; US7737082B2; WO2006033775A1; WO2012007383A1

Designated contracting state (EPC)

BE DE FR GB NL

DOCDB simple family (publication)

**EP 0368041 A1 19900516; EP 0368041 B1 19920108**; DE 3836940 C1 19900517; DE 58900703 D1 19920220

DOCDB simple family (application)

**EP 89119246 A 19891017**; DE 3836940 A 19881029; DE 58900703 T 19891017