

Title (en)

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

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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-CH₂-CH₂-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.

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