

Title (en)

METHOD FOR AGGLOMERATING INDUSTRIAL DUST, IN PARTICULAR USING A BRIQUETTING TECHNIQUE

Title (de)

VERFAHREN ZUM AGGLOMERIEREN VON INDUSTRIESTAUB, INSBESONDERE UNTER VERWENDUNG EINER BRIKETTIERTECHNIK

Title (fr)

PROCÉDÉ D'AGGLOMÉRATION DE POUSSIÈRES INDUSTRIELLES, EN PARTICULIER PAR TECHNIQUE DE BRIQUETAGE

Publication

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Application

**EP 09768125 A 20091102**

Priority

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- FR 0857906 A 20081121

Abstract (en)

[origin: FR2930265A1] The process comprises mixing the dust in a tank in the presence of a first binder comprising a polymer (5-20 wt.%) of molecular weight higher than 500000 g/mol, separately adding a second binder comprising silicate (5-40 wt.%) in the tank, and compacting the obtained agglomerates. The first binder is present in the form of an inverse emulsion. The organic polymer is water soluble, has an ionicity of 10-90 mol.%, and comprises an ionic, cationic, zwitterionic and/or anionic monomer, a nonionic monomer and optionally 0.02-2 mol.% of hydrophobic monomer. The process comprises mixing the dust in a tank in the presence of a first binder comprising a polymer (5-20 wt.%) of molecular weight higher than 500000 g/mol, separately adding a second binder comprising silicate (5-40 wt.%) in the tank, and compacting the obtained agglomerates. The first binder is present in the form of an inverse emulsion. The organic polymer is water soluble, has an ionicity of 10-90 mol.%, and comprises an ionic, cationic, zwitterionic and/or anionic monomer, a nonionic monomer and optionally 0.02-2 mol.% of hydrophobic monomer. The weight ratio of dry polymer to oil of the inverse emulsion is 0.5. The ratio of polymer in inverse emulsion to dust is 0.2-0.5 wt.%.

IPC 8 full level

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CPC (source: EP KR US)

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