

Title (en)

METHOD AND APPARATUS FOR COMBUSTION OF HUMID BITUMINOUS SLATES WITH LOW CALORIFIC POWER

Publication

EP 0081624 B1 19850515 (FR)

Application

EP 82104767 A 19820601

Priority

FR 8123182 A 19811211

Abstract (en)

[origin: ES8304651A1] The oil-shale is burned in a combustion chamber (24) having a chimney, and the method comprises: providing a drying gas by mixing hot gas taken from the combustion chamber via a duct (4) with relatively cool gas taken from the chimney via a duct (5), the proportions of said gasses being adjusted as a function quantity of water in said damp shale crushing lumps of said shale in a crusher (6) and in the presence said drying gas injecting the resulting grains of crushed shale together with the hot gas into an expansion chamber (8) in which the major portion of the grains falls out from the drying gas, while the lightest portion of grains is entrained by the gas passing the drying gas together with said lightest portion of grains entrained thereby via a duct (9) through filter means (10) to separate said lightest portion of grains from the drying gas riddling said major portion of the grains (at 17A, 17B) to provide a larger grain fraction and a smaller grain fraction recycling said larger grain fraction via a duct (19) through said crusher combining said smaller grain fraction with the said lightest portion of grains separated by said filter means (at 21) and injecting the combined grains into said combustion chamber in a suspension in primary air (25A, 25B).

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F23K 1/00; F23K 1/04

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