

Title (en)
PROCESS FOR OBTAINING OIL FROM MINERALS THAT CONTAIN OIL

Publication
EP 0068526 B1 19840829 (DE)

Application
EP 82200576 A 19820511

Priority
DE 3124277 A 19810619

Abstract (en)
[origin: US4419216A] In a process of recovering oil from oil-containing minerals on a traveling grate, hot gases are passed through the bed in a retorting zone, oil is separated from the retort gases in a separating stage, solid carbon in the retorted bed is burnt in a succeeding combustion zone by means of oxygen-containing gases passed through, gases from which the oil has been removed in the separating zone are passed through the bed in a succeeding cooling zone and the heated gases are recycled to the retorting zone. To recover maximum quantities of oil and energy with a low expenditure, the solid carbon in the top layer of the bed is ignited by means of an ignition furnace at the beginning of the combustion zone, oxygen-containing gases are sucked through the bed thereafter to cause the burning zone to move through the bed, preferably the rate at which said oxygen-containing gases (19) are sucked through the bed (3) is so controlled that the bed is heated to the highest possible temperature by the combustion of carbon, a partial stream of the gases leaving the separating stage is heated by an indirect heat exchange with the exhaust gases from the combustion zone and is passed through the bed in the cooling zone and is further heated there and is then recycled to the retorting zone, and a partial stream of the gases leaving the separating zone is discharged.

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