

Title (en)
Combustion chamber for the combustion of at least partially combustible materials.

Title (de)
Brennkammer zum Verbrennen zumindest teilweise brennbarer Stoffe.

Title (fr)
Chambre de combustion des matières au moins partiellement combustibles.

Publication
EP 0409037 B1 19940921

Application
EP 90113091 A 19900709

Priority
EP 89113285 A 19890719

Abstract (en)
[origin: CA2021344A1] A combustion chamber for combusting a substance includes a burner and at least three successively disposed parts including a primary chamber, a secondary chamber and an ash discharge chamber. The burner is associated with and conducts a first air flow to the primary chamber. The primary chamber has an inlet for conducting a second air flow for substoichiometric combustion of a substance to be combusted at a temperature below an ash softening point and without clinker flow. The secondary chamber has an inlet for conducting a third air flow for brief, intensive, complete combustion of the substance discharged from the primary chamber with clinker flow, and the secondary chamber has walls and a material lining the walls being resistant to fluid clinker. A process for combusting a substance being at least partially formed of combustible material includes feeding an air flow to the substance for substoichiometrically combusting the substance at a temperature below an ash softening point without clinker flow but with formation of a residue, and subsequently admixing a further air flow with the residue of the substoichiometric combustion for completely combusting the residue and forming flue gas and flowing ash. Prepared pyrolysis residue and incompletely burned gas may be discharged from a pyrolysis reactor as the at least partially combustible material by low-temperature carbonization of trash in a system for thermal trash disposal.

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Cited by
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