

Title (en)
REACTOR AND METHOD FOR GASIFYING AND/OR MELTING MATERIALS

Title (de)
REAKTOR UND VERFAHREN ZUM VERGASEN UND/ODER SCHMELZEN VON STOFFEN

Title (fr)
REACTEUR ET PROCEDE DE GAZEIFICATION ET/OU DE FUSION DE MATIERES

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Application
EP 01911636 A 20010213

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Abstract (en)
[origin: WO0161246A1] The invention relates to a reactor for gasifying and/or melting feed materials, comprising the following: a delivery section (1) by which means the feed materials are introduced; a pyrolysis section (8), which adjoins the preceding section, hereby expanding the cross-section; gas supply means (10) which open into the pyrolysis section (8) approximately at the level of the expanded cross-section and by which means hot gases are supplied to a discharge cone (9); a melting and overheating section (14) which adjoins the pyrolysis section (8); upper feeding-in means (15) for introducing a medium that is rich in energy into the melting and overheating section (14); a reduction section (20) comprising gas extraction means (21), by which means excess gases are extracted; a hearth (25) which is situated beneath the reduction section (20), for collecting and diverting molten metals and slag; and lower feeding-in means (26), by which means a medium that is rich in energy is introduced directly above the melts and below the gas extraction means (21). The invention also relates to a method for gasifying and/or melting feed materials.

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