

Title (en)
Furnace and plant for the treatment of special waste comprising said furnace

Title (de)
Feuerung und Sonderabfall-Behandlungsanlage mit einer derartigen Feuerung

Title (fr)
Foyer et installation de traitement de déchets spéciaux comportant un tel foyer

Publication
EP 1462719 A1 20040929 (EN)

Application
EP 03425192 A 20030327

Priority
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Abstract (en)
A furnace (14) for the heat treatment of special waste, which envisages a chamber (16) inside which the atomised waste, together with calcium carbonate in powder form, is introduced. A vortical current of combustion air draws the dust along the chamber, with a helical movement along the horizontal axis (X-X) of the chamber (16). <??>The vortical movement facilitates the reaction which leads to the formation of inert matter separated by means of feeder screws. <??>The fumes are treated before being introduced into the atmosphere, while the heat generated inside the furnace is re-utilised for the production of electric and thermal energy. <IMAGE>

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IPC 8 full level
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Citation (search report)
• [XA] US 5727482 A 19980317 - YOUNG BOB W [US]
• [XA] US 5566625 A 19961022 - YOUNG BOB W [US]
• [XA] US 4509435 A 19850409 - ADAMS JACK C [US]
• [X] WO 9708495 A1 19970306 - PETERSEN HUGO VERFAHRENSTECH [DE], et al
• [X] US 4335663 A 19820622 - TERRELL GEORGE C
• [A] DE 3244123 A1 19840530 - BABCOCK ANLAGEN AG [DE]
• [A] US 6405664 B1 20020618 - LOGAN TERRY J [US], et al
• [A] US 3861330 A 19750121 - SANTOLERI JOSEPH J

Cited by
FR2979138A1; JP2017150792A

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