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(71) Applicant(s):

SENER INGENIERIA Y SISTEMAS, S.A. [ES/ES]; Av. Zugazarte, 56 Las Arenas 48930 VIZCAYA (ES) *(for all designated states)*

(72) Inventor(s):

AMADE FULLAONDO, Benat; Av. Zugazarte, 56 Las Arenas 48930 VIZCAYA (ES)

HERRAZTI GARCÍA, Borja; Av. Zugazarte, 56 Las Arenas 48930 VIZCAYA (ES)

ARRIBALZAGA ZALDIBAR, Peru; Av. Zugazarte, 56 Las Arenas 48930 VIZCAYA (ES)

(74) Agent(s):

CARPINTERO LOPEZ, Mario; Herrero & Asociados, S.L. Cedaceros, 1 28014 MADRID (ES)

(54) Title (EN): SYSTEM FOR GENERATING ELECTRICAL ENERGY FROM THE COMBUSTION OF SOLID URBAN WASTE AND ASSIMILABLE WASTE

(54) Title (FR): SYSTÈME DE PRODUCTION D'ÉNERGIE ÉLECTRIQUE À PARTIR DE LA COMBUSTION DE RÉSIDUS SOLIDES URBAINS ET ASSIMILABLES

(54) Title (ES): SISTEMA PARA LA GENERACIÓN DE ENERGÍA ELÉCTRICA A PARTIR DE LA COMBUSTIÓN DE RESIDUOS SÓLIDOS URBANOS Y ASIMILABLES

(57) Abstract:

(EN): The invention relates to a method for generating electrical energy from the combustion of solid urban waste and assimilable waste, which comprises a first step of heating water using an incineration boiler for solid urban waste that operates below 400 °C, and a second step of heating using a boiler that uses synthesis gas as fuel, which gas is generated by means of gasification and subsequent cleaning. Thus, better performance is achieved while minimising the problems of corrosion.

(FR): L'invention concerne un procédé de production d'énergie électrique à partir de la combustion de résidus solides urbains et assimilables, qui comprend une première phase de chauffage d'eau, réalisée par l'intermédiaire d'une chaudière d'incinération de résidus solides urbains qui fonctionne en dessous de 400°C et une seconde phase de chauffage par l'intermédiaire d'une chaudière qui utilise comme combustible le gaz de synthèse produit par gazéification et son nettoyage postérieur. On obtient ainsi un rendement augmenté tout en réduisant au minimum les problèmes de corrosion.

(ES): Procedimiento para la generación de energía eléctrica a partir de la combustión de residuos sólidos urbanos y asimilables, que comprende una primera fase de calentamiento de agua, realizada mediante una caldera de incineración de residuos sólidos urbanos, que funciona por debajo de 400 °C y una segunda fase de calentamiento mediante una caldera que emplea como combustible el gas de síntesis generado mediante una gasificación y su posterior limpieza. Se consigue así mayor rendimiento pero minimizando los problemas de corrosión.

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