

METHOD OF INCINERATING WASTE MATERIAL BY WAY OF DRY DISTILLATION AND
GASIFICATION
ABSTRACT OF THE DISCLOSURE

A waste material in a first gasification furnace is thermally decomposed through dry distillation, producing a combustible gas, which is introduced into and combusted in a first combustion furnace, and the produced heat of combustion is imparted to a heat source of a boiler. The opening of a valve connected to the first gasification furnace is controlled to supply oxygen required to thermally decompose the waste material in order to keep the combustion temperature of the combustible gas in the first combustion furnace at a substantially constant combustion temperature upon the dry distillation in the first gasification furnace. When the opening of the valve increases and becomes greater than a predetermined opening at an ending stage of the dry distillation in the first gasification furnace, a waste material in a second gasification furnace is thermally decomposed through dry distillation, producing a combustible gas. The combustible gas is introduced into and combusted in a second combustion furnace, and the produced heat of combustion is imparted to the heat source of the boiler. The opening of a valve connected to the second gasification furnace is controlled to supply of oxygen required to thermally decompose the waste material in order to keep the combustion temperature of the combustible gas in the second combustion furnace at the substantially constant combustion temperature upon the dry distillation in the second gasification furnace.

Fig. 1

This Sheet Has Been Replaced

