

[TITLE OF INVENTION]

WASTE HEAT POWER GENERATION SYSTEM

[ABSTRACT]

A waste heat power generation system (1) includes an incinerator (2), an exhaust gas line
5 (5) through which exhaust gas (EG) discharged from the incinerator (2) flows, a power
generation device (3) configured to generate electric power using heat transfer oil (HO)
as a heat source, a first heat exchanger (6) configured to exchange heat between the
exhaust gas (EG) and the heat transfer oil (HO) supplied to the power generation device
(3), an air preheater (7) disposed in the exhaust gas line (5) in parallel with the first heat
10 exchanger (6) and configured to exchange heat between the exhaust gas (EG) and air
(A1) supplied to the incinerator, a dust collection device (14) configured to remove solid
components from the exhaust gas (EG) having exchanged heat in the first heat exchanger
(6) and the air preheater (7), and a second heat exchanger (8) provided in the exhaust gas
line (5) on an upstream side of the dust collection device (14) and configured to exchange
15 heat between the exhaust gas (EG) that has exchanged heat in the first heat exchanger (6)
and the air preheater (7) and the heat transfer oil (HO) that is supplied to the first heat
exchanger (6).

[Fig. 1]