ABSTRACT

THERMAL TREATMENT OF CARBONACEOUS MATERIAL

Carbonaceous materials are heated by microwave radiation in a first zone having an atmosphere in which flame generation is substantially prevented, and then part of the hot carbonaceous material is moved into a second zone where thermal energy is released to a heat exchanger, the thermal energy being latent or generated by combustion of the material in the second zone. Apparatus comprises a housing with first (3) and second (4) zones, a microwave radiation source (5), a gas barrier (14) between the zones, and a heat exchanger (16) in the second zone (4).

This Sheet Has Been Replaced

Figure 1.