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(54) Title: PROCESSES AND SYSTEMS FOR THERMAL TREATMENT OF PARTICULATE MATERIALS

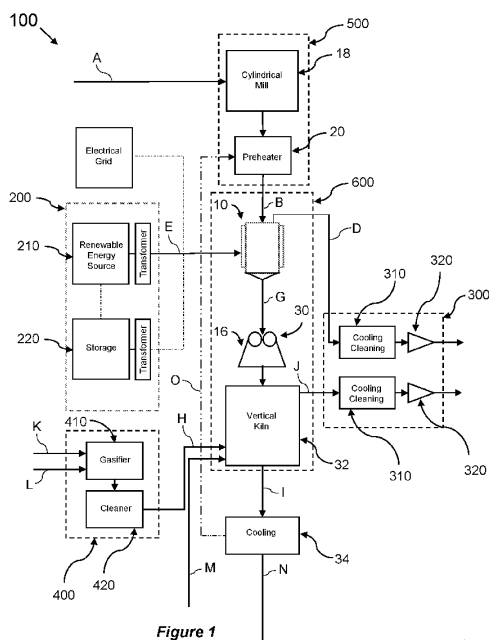


Figure 1

(57) Abstract: Disclosed is a system (100) for the thermal treatment of a particulate material. The system (100) includes a first reactor segment (12) for receiving the particulate material at a top end (12.1) so that the particulate material flows under gravity through the first reactor segment (12), a first heating system (14) adjacent to and disposed along a length of the first reactor segment (12) to heat the particulate material flowing through the first reactor segment (12) from outside the first reactor segment (12) so as to activate the particulate material, and a compactor (16) for receiving and compacting the hot activated particulate material from the first reactor segment (12) to form agglomerates. Processes for thermal treatment of particulate material are also disclosed.

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