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(54) Title: DYNAMIC CLASSIFIER WITH HOLLOW SHAFT DRIVE MOTOR

(57) Abstract

A dynamic classifier for a coal pulverizer has an improved drive mechanism (18, 20 and 26) which is mounted on top of a pulverizer and concentric with the classifier axis of rotation (36) and is directly controllable. The drive mechanism is a variable-speed DC or AC electric motor (20) having a hollow motor shaft (28). The motor can produce classifier rotor (60) rotational speeds of between 50 and 200 RPM. The classifier rotor is supported from the hollow motor shaft. A coal feed pipe (16) passes through the hollow motor shaft (28) and classifier rotor shaft into the pulverizer.

