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(54) **PORTABLE SAND PLANT, SYSTEMS AND METHODS**

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See application file for complete search history.

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(57) **ABSTRACT**

A portable plant, systems and methods for processing material, the plant having a chassis configured to connect to a truck to transport the plant on a roadway, the chassis having wheels and a base frame, an uppermost portion of the base frame positioned below an uppermost portion of the wheels, a first material processing device such as a hydrosizer mounted to a tower structure, the tower structure rotatably fixed to the base frame, and a hydraulic cylinder connected to the base frame and to the tower structure where operation of the cylinder causes the hydrosizer and the tower to adjust between a generally horizontal orientation where the hydrosizer is generally horizontally oriented or rests on the base frame and a generally vertical orientation. The hydrosizer may be a cone-shaped hydrosizer and the wheels may be associated with a removable suspension and the chassis is configured to rest on the ground and receive additional processing components for use in a processing mode where the additional components are placed on a position of the chassis vacated by the elevated first material processing device.

22 Claims, 12 Drawing Sheets

