

Method for rinsing granular material in a drum with self-oscillating internal-chamber load, rotating about a horizontal axis, includes feeding the material into the drum chamber, spraying it with water, removing the finely dispersed cementing fraction, together with the water, by disintegrating the material through loosening and dispersing the finely dispersed fraction in water, and removing the rinsed material from the chamber, while the granular load is subjected to a pulsating motion with a variable amplitude across the cross-section of the chamber. The removal of the finely dispersed cementing fraction is performed by inducing self-excitation of the load in a rigid mode.