

Invention relates to the devices for fine grinding of materials with their simultaneous drying and classification and it can be used in chemical, pharmaceutical, building and other branches of industry. Centrifugal impact mill contains vertical stepped housing with the deflectors, each step in which counting on the motion of displacing the material has larger diameter, stepped disk rotor with bilateral beaters located in the housing, separation ring-shaped disks located after each step of the rotor, loading and unloading branch pipes. Each rotor disk is executed with possibility of independent displacement in the axial direction within the height of the step, the height of each step is greater than the sum of thickness of corresponding disk and heights of upper and lower beaters. The effectiveness of crushing increases.