

The invention relates to the devices for mineral dressing. A device for enrichment of mineral raw material with metal inclusions contains a cylindrical housing installed vertically, in lower part of which a crushing element is located which is made in the form of rotor with radially mounted blades, whose upper generatrix is made at the angle of $15-35^\circ$ relative to horizontal plane. Upper part of the housing as cover is made in the form of hollow truncated cone with lateral generatrix inclined at the angle of $25-45^\circ$. The generatrix of the upper opening of truncated cone is connected with air-supply branch pipe being coaxial to the housing, inside which a loading branch pipe is coaxially located, which lower end is located above the center section of the rotor. The internal surface of housing and cover are equipped with ribbed lining, whose mechanical strength exceeds the mechanical strength of the components of mineral raw material with metal inclusions subject to enrichment. In the lateral part of the housing an unloading opening is made which is equipped with a shutter. The realization of device allows to increase the efficiency of enrichment of mineral raw material with metal inclusions over a wide range of its physical and mechanical parameters. The possibility of combination of two technological processes also is ensured: crushing input raw material and division into components.