

The invention relates to the drying of dispersed materials in the fluidized (spouted) bed and can be used in chemical, food and other branches of industry. A gas-distributing device for apparatuses with fluidized bed contains in parallel installed triangular prismatic elements with extended bases equipped with remote supports, and placed on them wedge-shaped packed elements. The lateral faces of triangular prismatic elements are concave in the point of joining with the base. The value of remained flat surface of lateral faces at the apexes of elements makes not less than fifty percent of the total surface area of lateral faces.