

Gas distribution device for a fluidized bed apparatus consists of two parallel stationary grates, each of which is shaped like a triangular prism with a vertical outer wall and a horizontal bottom wall. The right grate is positioned at a specified distance from the lower base of the left grate, to which constricting inserts are attached. A plate is mounted on an axis between the grates; this plate replicates the shape of a horizontal gas jet and allows for mechanical adjustment of the gas distribution device slot dimensions. The constricting inserts are designed to allow for adjustment of the slot lengths.