

A capacitive contact heater contains an open from above bath with pipes of water input and output and a feeding steam piping. The bath is coated by outer thermal insulation and has a flat bottom. The pipes are equipped with valves. In the bath a collector with end pipes is located which is connected with the feeding steam piping. The end pipes are located uniformly and in parallel to the bath bottom. Plugged free ends are fastened at the stands. At the end pipes the openings are made with uniform spacing which are directed vertically downward, total area of the flow sections of all end pipe openings is equal to the smallest flow section of the feeding steam piping coming to the bath from above.