

The invention relates to a reservoir of molten metal atomizer comprising i) a tundish comprising a) a bottom and a side substantially delimiting a central cavity whose bottom comprises a central portion and a periphery, b) at least one discharging zone in the form of a top-opened recess in the side of the tundish and comprising a bottom positioned at most at the level of the periphery of the bottom of the central cavity, a discharging opening in the bottom and a shut-off device for the discharging opening, ii) a bell whose lip is positioned towards the bottom of the tundish, the bell being substantially centered on the tundish and extending above at least 50 % of the bottom of the tundish, the bell comprising in its upper section a gas injector. The invention also relates to the process thereof.