

ABSTRACT

A device for division of a non-Newtonian liquid, for example a molten synthetic material, flowing through a passage (1, 21), and comprising a flow-conditioned viscosity decreasing outward in cross section in flow through a T-shaped passage branching (T) deflecting and dividing the liquid flow. In a first embodiment of the device, before the end of the supply passage (1), a partition (11) is installed in the passage branching (T) dividing the liquid counterflow from the supply passage (1) into two halves, the angular position of the partition (11) assuming a setting adapted to the distribution of the differentially viscous components of the liquid in the supply passage (1). In a second embodiment of the device, in the passage branching (T), a deflector (23) is installed, so fashioned that essentially the central (viscous) component of the liquid from the supply passage (21), prior to its deflection into the discharge passages (22a, 22b), is divided into two components and these are so deflected that the two components preferably flow diametrically towards each other in the region ahead of the discharge passages (22a, 22b).

Figures 7 and 9a