



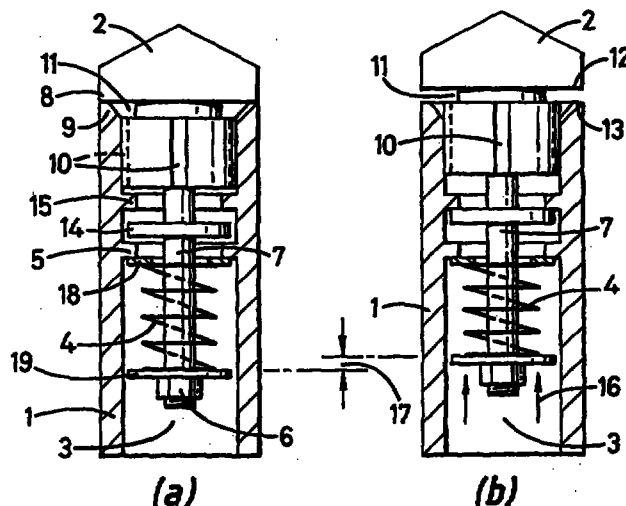
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(54) Title: PROCESS FOR INTRODUCING A LIQUID IN A FLUIDISED BED



(57) Abstract

Process for the introduction of liquid into a continuous process for the gas-phase polymerisation of an olefin monomer and one or more other alpha-olefins in a fluidised-bed reactor, characterised in that the liquid is introduced by means of at least one nozzle comprising a feed pipe (1) and a sleeve (2) sliding inside and at the end of the said pipe, the position of the said sleeve along the feed pipe being determined by the pressure of the feed liquid (3) and the return force of a preloaded spring (4) the said spring having one end fixed to the sleeve and the other end to the feed pipe, the sleeve being provided with one or more recesses (10) along its surface for sliding with the feed pipe, the said recesses emerging in a groove (11) around the circumference of the sleeve and below a circular stop (8) integral with the same sleeve, the said stop resting, when the nozzle is not in use, on a rim (9) of the end of the feed pipe, the said rim and the circular stop of the sleeve each being provided with a bearing surface (12, 13), the contact area of which being minimised in order to allow good sealing.