

ABSTRACT**Nozzle for extruding a material rich in protein and water, as well as an extrusion machine comprising such a nozzle**

- 5 Said nozzle (30) comprises an outer casing (31), which is tubular, being centred on an axis (X-X), the outer casing is also temperature-controlled. For a more compact and efficient design, the nozzle also comprises an inner member (32) which is coaxially arranged inside the outer casing and which is mounted so as to rotate about the axis relative to the outer casing, such that a downstream portion of the inner member extends
- 10 outside the outer casing and engages with a drive motor (35) to rotate about the axis, and such that a channel (33) having a cross section which is annular and centred on the axis is defined between the outer casing and the inner member. Said channel has an upstream end (33A) and a downstream end (33B) between which the material flows into the channel when it is pushed through the nozzle such that, when the material is pushed through the
- 15 nozzle, the material moves through the channel from the upstream end to the downstream end whereby the material axially exits the channel.

[Figure 3]