Claims:

~~1. Extruder system for degassing a mixture (5) with a first extruder (1), a second extruder (2) arranged downstream of the first extruder (1) and a transfer zone (6) formed between them, characterized by a pressure control device by which the pressure of the mixture (5) at the discharge of the first extruder (1) can be regulated.~~

~~2. Extruder system according to claim 1, characterized in that the pressure control device is controlled in such a way that the pressure of the mixture (5) at the discharge of the first extruder (1) is greater than in a degassing zone of the second extruder (2) adjoining the transfer zone (6).~~

~~3. Extruder system according to claim 1 or 2, characterized by means for increasing the surface of the mixture (5) passed through the transfer zone (6).~~

~~4. Extruder system according to claim 3, characterized by a perforated plate (10) through which the mixture (5) guided through the transfer zone (6) is divided into several partial streams.~~

~~5. Extruder system according to claim 3 or 4, characterized in that the mixture (5) is passed through one or more slot nozzles in the transfer zone.~~

~~6. Extruder system according to one of the preceding claims, characterized in that the second extruder (2) is arranged above the first extruder (1) in relation to the direction of gravity.~~

~~7. Extruder system according to claim 6, characterized in that in a degassing zone of the second extruder (2) adjoining the transfer zone (6) there is provided a degassing outlet (11) which leads upward in relation to the direction of gravity.~~

~~8. Extruder system according to one of Claims 1 to 5, characterized in that the second extruder (2) is arranged below the first extruder (1) in relation to the direction of gravity and a degassing outlet leading to the side or downwards in relation to the direction of gravity is provided in a degassing zone of the second extruder (2) which adjoins the transfer zone.~~

~~9. Extruder system according to one of the preceding claims, characterized in that a closable outlet (13) is provided in the region of the transfer zone for the discharge of mixture (5).~~

~~10. Extruder system according to claim 9, characterized in that the outlet (13) can be closed by means of the pressure control device.~~

~~11. Extruder system according to one of the preceding claims, characterized in that the pressure control device comprises a slide valve.~~

~~12. Extruder system according to one of the preceding claims, characterized in that the volume cross section of the first extruder (1) is smaller than the volume cross section of the second extruder (2).~~

~~13. Extruder system according to one of the preceding claims, characterized in that an extruder screw (3) of the first extruder (1) can be driven at a higher angular velocity than an extruder screw (4) of the second extruder (2).~~

1. An extruder system for degassing a mixture comprising:

a first extruder,

a second extruder arranged above the first extruder in relation to a gravitational direction and downstream of the first extruder, and

a transfer zone formed between the first and second extruders;

characterized by a pressure control device by which the pressure of the mixture at the discharge of the first extruder can be regulated;

wherein the extruder system comprises a means for increasing a surface of the mixture passed through the transfer zone;

wherein the transfer zone includes a first pipeline part arranged parallel to the first extruder and positioned downstream of the first extruder and a second pipeline part arranged perpendicular to the first pipeline part and positioned between the first pipeline part and the second extruder, wherein the pressure control device includes a slide valve within the first pipeline part which narrows an opening from the first pipeline part to the second pipeline part.

2. The extruder system according to claim 1, characterized in that the pressure control device is controlled in such a way that the pressure of the mixture at the discharge of the first extruder is greater than in a degassing zone of the second extruder adjoining the transfer zone.

3. The extruder system of claim 1, wherein the means for increasing a surface comprises a perforated plate through which the mixture guided through the transfer zone is divided into several partial streams.

4. The extruder system of claim 1, wherein the means for increasing a surface comprises one or more slot nozzles in the transfer zone, wherein the mixture is passed through the one or more slot nozzles.

5. The extruder system according to claim 4, characterized in that the pressure control device is controlled in such a way that the pressure of the mixture at the discharge of the first extruder is greater than in a degassing zone of the second extruder adjoining the transfer zone.

6. The extruder system according to claim 5, wherein the means for increasing a surface comprises a perforated plate through which the mixture guided through the transfer zone is divided into several partial streams.

7. The extruder system according to claim 1, characterized in that in a degassing zone of the second extruder adjoining the transfer zone there is provided a degassing outlet in relation to the gravitational direction.

8. The extruder system according to claim 1, characterized in that a closable outlet is provided in the region of the transfer zone for the discharge of the mixture.

9. The extruder system according to claim 8, characterized in that the outlet can be closed by means of the pressure control device.

10. The extruder system according to claim 9, characterized in that the pressure control device comprises a slide valve.

11. The extruder system according to claim 1, characterized in that a volume cross section of the first extruder is smaller than a volume cross section of the second extruder.

12. The extruder system according to claim 1, characterized in that an extruder screw of the first extruder can be driven at a higher angular velocity than an extruder screw of the second extruder.