

Title (en)
DELIVERY UNIT

Title (de)
FÖRDERAGGREGAT

Title (fr)
GROUPE DE TRANSPORT

Publication
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Application
EP 06743369 A 20060421

Priority
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Abstract (en)
[origin: WO2006128762A1] Prior art delivery units have an impeller, which rotates inside a pump chamber and which has, on at least one face, a ring of blades situated at a distance from one another in the peripheral direction. These blades each have a front side leading in the peripheral direction and a rear side trailing in the peripheral direction. A blade chamber is formed between the individual blades. In order to improve the inflowing and outflowing into/out of the chambers, the blades have, on their edge formed by the face and the rear side, a bezel extending continuously from radially inward to radially outward. A drawback exists in that the edge formed by the face and the front side does not have a bevel. As a result, the flow experiences an increased flow resistance when flowing out of the blade chamber. In the inventive delivery unit, the efficiency is improved by providing more inflow surface or outflow surface to the flow. To this end, the invention provides that at least one blade (5.1) has, radially outward on the front side (30) and/or radially inward on the rear side (31) in the area of the faces (20.1, 20.2), at least one triangular, oval-shaped, circular or sector of a circle-shaped slope (38).

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