Title (en)

APPARATUS AND METHOD FOR FRACTIONATING SUSPENSIONS CONTAINING ELONGATED PARTICLES

Title (de)

VORRICHTUNG UND VERFAHREN ZUM FRAKTIONIEREN VON LÄNGLICHE PARTIKEL ENTHALTENDEN SUSPENSIONEN

Title (fr)

ARRANGEMENT ET PROCÉDÉ DE FRACTIONNEMENT DE SUSPENSIONS CONTENANT DES PARTICULES ALLONGÉES

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Application

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Abstract (en)

[origin: WO2020038979A1] The invention relates to an apparatus (1) for fractionating a suspension containing elongated particles, comprising a plurality of substantially tubular fractionating devices (1) and at least one distributor (12) that can be connected to an inlet opening (2) of each fractionating device (1), wherein each of the substantially tubular fractionating devices (1) comprises a tubular flow-through region (4) which is surrounded, at least over part of its length, by an annular channel (6). One end of the flow-through region (4), facing away from an inlet opening, comprises a substantially conical connection piece (5), said conical connection piece (5) having an outlet opening (8) which is tapered in relation to the inlet end thereof and optionally opens into a tube with an enlarged cross-section, and an outlet which is articulated on the connection piece (5) and opens into the annular channel (6), said outlet having, in the direction of flow, a fractionating slot (7) opening at a substantially acute angle between the flow-through region (4) and the annular channel (6), wherein the annular channel (6) leads into a collection chamber (11).

IPC 8 full level

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