

Title (en)
IMMERSION NOZZLE

Title (de)
TAUCHDÜSE

Title (fr)
BUSETTE IMMERGÉE

Publication
EP 4368311 A1 20240515 (EN)

Application
EP 21949359 A 20210709

Priority
JP 2021025890 W 20210709

Abstract (en)
A flow channel 21 in a first section 2 has a lateral cross-sectional shape that is a circular shape. A flow channel 41 in a second section 4 has a lateral cross-sectional shape that is a rectangular shape. A flow channel 31 in a connection section 3 has a shape with which the flow channel 21 in the first section 2 is continuously connected to the flow channel 41 in the second section 4. The rectangular shape of the second section 4 has long sides each having a length a and short sides each having a length b, with a ratio a/b between the length a and the length b being 3 or greater and 7 or less. The flow channel 41 in the second section 4 has a cross-sectional area $S_{₂}$, the flow channel 21 in the first section 2 has a cross-sectional area $S_{₁}$, and the cross-sectional area $S_{₂}$ is larger than $S_{₁}$. The openings 5 include two first openings 51 and two second openings 52. The first openings 51 are open, in one-to-one correspondence, in two side faces 44 of the second section 4. One second opening 52A of the two second openings 52 is open while extending from one side face 44A of the two side faces 44 to a bottom face 45 of the second section 4. Another one second opening 52B of the two second openings 52 is open while extending from another one side face 44B of the two side faces 44 to the bottom face 45 of the second section 4.

IPC 8 full level
B22D 11/10 (2006.01); **B22D 41/50** (2006.01)

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KH MA MD TN

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