

Title (en)
MICRO-BUBBLE SPRAY HEAD AND WASHING DEVICE WITH SAME

Title (de)
MIKROBLASENSPRÜHKOPF UND WASCHMASCHINE DAMIT

Title (fr)
TÊTE DE PULVÉRISATION À MICROBULLES ET DISPOSITIF DE LAVAGE LA COMPORTANT

Publication
EP 4071290 A4 20230125 (EN)

Application
EP 20897293 A 20201130

Priority

- CN 201911229872 A 20191204
- CN 201911348666 A 20191224
- CN 201911399452 A 20191230
- CN 2020132826 W 20201130

Abstract (en)
[origin: EP4071290A1] A micro-bubble spray head and a washing device with the same. The microbubble spray head comprises an integrated nozzle (521) and a microbubble filter bag (522) fixed in the outlet end (212) of the integrated nozzle (521), and a Venturi tube structure is formed in the integrated nozzle (521), and a suction port (216) is provided with the integrated nozzle (521), so that the air is sucked into the integrated nozzle (521) through the suction port (216) by means of a negative pressure made by the Venturi tube structure, and mixed with the water flow in the integrated nozzle (521) to produce bubble water; the microbubble filter bag (522) comprises an opening (223), a bottom (221) and a side wall between the opening (223) and the bottom (221), the opening (223) faces the venturi tube structure, and an outlet space (524) is formed between the side wall (222) and the inner wall (212a) of the outlet end (212), so that the bubble water can pass through the side wall (222) and the bottom (221) to form microbubble water. Not only the bottom portion (221) of the microbubble filter bag (522) participates in mixing and cutting of the bubble water, but also the side walls (222) of the larger area of the micro-bubble filter bag (522) also participate in mixing and cutting of the bubble water, so that the yield of the microbubble water of the microbubble spray head can be significantly increased.

IPC 8 full level
B01F 23/232 (2006.01); **B01F 23/2373** (2006.01); **B01F 25/312** (2006.01); **B01F 25/452** (2006.01); **D06F 39/08** (2006.01)

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Citation (search report)

- [XAI] US 6054048 A 20000425 - KAERIYAMA HISASHI [JP], et al
- [XAI] US 4830790 A 19890516 - STEVENSON DOUGLAS E [CA]
- [XAI] US 5382389 A 19950117 - GOODINE ALLEN [CA], et al
- [A] US 5275763 A 19940104 - FUKAI TOSHIHARU [JP]
- See also references of WO 2021109971A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

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