

Title (en)
An air-water mixing shower

Title (de)
Dusche mit Luft-Wasser-Mischung

Title (fr)
Douche de mélange air-eau

Publication
EP 2767349 A1 20140820 (EN)

Application
EP 13155087 A 20130213

Priority
EP 13155087 A 20130213

Abstract (en)
A shower comprises a shower head (1) having a water inlet and outlet holes (12), a connecting assembly (2) connected with the shower head (1) and connectable with a water inlet pipe and adapted to transfer water from the inlet pipe to the water inlet of the shower head (1) and to mix the water with air, the rotatable connecting assembly (2) including a tubular external connector having a first end connected to the water inlet of the shower head (1), an internal expansion chamber (213) and a second end, a ball rod (22) connected with the water inlet pipe and with the expansion chamber (232) and forming a through hole and a first air inlet (224) extending through a side wall of the ball rod (22) into the through hole, a tubular water guide rod (23) arranged inside the through hole of the ball rod (22) and forming a Venturi shaped distribution hole and expansion hole and a second air inlet (234) extending through a side wall of the water guide rod (23) into the expansion hole (232) for sucking air in the water flow in the expansion hole, an annular gap (233) defined between the water guide rod (23) and the ball rod (22), wherein the first air inlet (224) connects the annular gap (233) with the outside and the second air inlet (234) connects the annular gap (233) with the expansion hole (232).

IPC 8 full level
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CPC (source: EP)
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Citation (search report)
• [XII] DE 3825537 A1 19890209 - PFISTER PRICE INC [US]
• [XII] US 2012080097 A1 20120405 - CHENG MENG-FENG [TW], et al

Cited by
CN106216116A; CN106140506A; CN113248033A; CN105772251A; CN108057529A; EP4067584A1; CN115138491A; JP2022158853A; WO2023000758A1

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