Title (en)

MÉTHOD AND APPARATUS FOR THE TREATMENT OF POURING WATER DURING THE POURING BY ENRICHMENT WITH CO2 AND H2CO3

Publication

EP 0142595 B1 19890913 (DE)

Application

EP 84101155 A 19840206

Priority

DE 3330375 A 19830823

Abstract (en)

[origin: EP0142595A2] 1. Process for the preparation of watering water by means of enrichment with CO2 and H2 CO3, in which CO2 gas which is constantly under pressure is introduced into the water which is flowing through a pipe which has a pressure and temperature approximately identical to those in a normal water supply pipe, characterized in that the watering water is led through a straight flow-channel section forming an impregnation zone and in the process the pressure of the watering water is, at least two partial areas which are at a distance in the flow direction and in each case at the circumference of the flow, momentarily reduced to below the pressure of the CO2 gas by means of an abrupt change in the flow speed, the external liquid layers of the watering-water flow in the impregnation zone being led in each case, at the areas of abrupt pressure reduction, over thin, shoulder-like, cross-sectional widenings of the flow channel section, and in that the watering-water flow is, in each case in the areas of momentarily reduced pressure, ultra-finely impregnated with the CO2 gas, these liquid layers being in each case maintained, immediately after each shoulder viewed in the direction of flow, in a free flow connection with the CO2 gas supply chamber via a plurality of bores corresponding to the shoulder width.

IPC 1-7

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