

Title (en)
Vaporizing device for dispersing water in the air

Title (de)
Vorrichtung zum Aussprengen von Wasser in die Luft

Title (fr)
Dispositif pour disperser de l'eau dans l'air

Publication
EP 2942106 A1 20151111 (EN)

Application
EP 14167398 A 20140507

Priority
EP 14167398 A 20140507

Abstract (en)
A vaporizing device for use in dispersing water in the air comprises a tower-like supporting structure (3) on which there is rotatably mounted a distributing structure (2) for dispensing vaporized jets of water. The distributing structure (2) comprises a plurality of dispensing tubes (T) which are parallel to, and spaced apart from, each other, these tubes being carried in a rack-like fashion by a supporting tubular cross-member (13) rotatably mounted around a vertical axis (7) on a platform (6) carried by the tower-like structure (3). The dispensing tubes (T) are provided with a plurality of dispensing nozzles (U) oriented along different directions and distributing along each dispensing tube (T). Each dispensing nozzle (U) is for receiving water under pressure fed by a pump which draws water from a basin, through a path defined within the supporting tubular cross-member (13) and within each dispensing tube (T). The rotatable distributing structure (2) includes one or more planar surfaces (W) shaped and arranged for automatically orienting the distributing structure (2) in the wind, so that the dispensing tubes (T) extend substantially along the wind direction, thus favouring the dispersion of the vaporized jets in the air. In a preferred example, the platform (6) is carried by a carriage (4) vertically guided along the tower-like structure (3) and movable between an operative raised position and a lowered position, in which maintenance operations can be carried out. The device comprises a self-centering system including a fixed cam member (21) which causes the tubular cross-member (13) to rotate around its articulation axis (7) when this cross-member is in a position which would interfere with the tower-like structure (3) during lowering of the platform (6).

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Citation (search report)
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