

Title (en)

A waterproof, dust-proof and salt fog-proof cooling fan

Title (de)

Wasserdichter, staubdichter und salznebeldichter Lüfter

Title (fr)

Ventilateur de refroidissement étanche, à l'épreuve de la poussière et du brouillard salin

Publication

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Application

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Abstract (en)

[origin: EP2068003A2] The invention relates to a waterproof, dust-proof and salt fog-proof cooling fan, comprising a fan frame 6, wherein a fixed round table 66 is arranged at center part of the fan frame 6, a fixed sleeve 65 is arranged at center of the round table 66. Moreover, an annular U-shaped slot 64 is arranged at the end surface of the round table 66, and a sealing ring 4 is an-anged in the U-shaped slot 64. The cooling fan further comprises a waterproof cover body 1, wherein the waterproof cover body 1 is connected on the fan frame 6 through the sealing ring 4. Furthermore, it comprises an axial fan hub 8 with a reversed taper shaped fixed table 82 stretching from the center of the inner cavity of the axial fan hub 8, and the fixed table 82 connects with the main shaft 81. The foresaid round table 66 is a blind hole 62 with its opening at bottom side of the fan frame, the round table 66, sealing ring 4 and the foresaid cover body 1 form a sealed cavity, and the stator and circuit board assembly 5 are arranged in the sealed cavity. In this way, the cooling fan shows effective waterproof, dustproof and salt dog-proof performance.

IPC 8 full level

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Cited by

US2012032542A1; CN114607637A; CN103438019A; CN103452913A; CN102080665A; US2012313469A1; US8742637B2; US2013287605A1; US2015167682A1; US9249788B2; US9869321B2; EP4293234A1; EP2369183A1; US9022753B2; WO2015067105A1; WO2023242382A1

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