

Title (en)  
Liquid atomizer

Title (de)  
Flüssigkeitszerstäuber

Title (fr)  
Atomiseur de liquides

Publication  
**EP 1916037 A3 20080910 (EN)**

Application  
**EP 07004419 A 20070303**

Priority  
CN 200610137555 A 20061025

Abstract (en)  
[origin: EP1916037A2] The present invention provides a liquid atomizer (20) for atomizing liquid and applied in an atomizing device (100) having an accommodating space (12) and a through hole (13). The liquid atomizer (20) includes a vibrating element (30) having a first hole (31) corresponding to the through hole (13); a spray plate (40) having a plurality of spraying holes (41) corresponding to the first hole (31) and being connected with the vibrating element (30); and a structure element (50) having a second hole (51) corresponding to the plurality of spraying holes (41) of the spray plate (40) and being connected with the spray plate (40) so that the spray plate (40) is disposed between the vibrating element (30) and the structure element (50). The vibrating element (30), the spray plate (40) and the structure element (50) are assembled in the accommodating space (12) of the atomizing device (100). Liquids are atomized via the spraying holes (41) of the spray plate (40).

IPC 8 full level  
**B05B 17/06** (2006.01)

CPC (source: EP)  
**B05B 17/0646** (2013.01)

Citation (search report)  
• [X] WO 2006066671 A1 20060629 - OREAL [FR], et al  
• [X] US 2006226253 A1 20061012 - WANG YU-RAN [TW], et al

Cited by  
JP2014159025A

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