

Title (en)  
Vibrating element for ultrasonic atomization.

Title (de)  
Schwingungsglied für Ultraschallzerstäubung.

Title (fr)  
Organe de vibration pour pulvérisation ultrasonore.

Publication  
**EP 0202100 A1 19861120 (EN)**

Application  
**EP 86303613 A 19860513**

Priority  
JP 10093585 A 19850513

Abstract (en)  
A vibrating element (1) for the ultrasonic atomization of liquid is formed around a periphery with steps having edges (A, B, C, D, E) over which a film of the liquid flows to be atomized at each edge. To improve the spray angle and the quantity of liquid sprayed, the height (h) and width (w) dimensions of each step is chosen in accordance with the wave length of ultrasopic vibration to be imparted to the vibrating element.

IPC 1-7  
**B05B 17/06**; **F02M 27/08**; **F23D 11/34**

IPC 8 full level  
**B05B 17/06** (2006.01); **B06B 1/02** (2006.01); **F02M 27/08** (2006.01); **F02M 69/04** (2006.01); **F23D 11/34** (2006.01)

CPC (source: EP)  
**B05B 17/0623** (2013.01); **B05B 17/063** (2013.01); **F02M 27/08** (2013.01); **F02M 69/041** (2013.01); **F23D 11/345** (2013.01)

Citation (search report)  
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• [A] GB 2126923 A 19840404 - LECHLER GMBH & CO KG  
• [A] US 3400892 A 19680910 - DALE ENSMINGER  
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Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0202100 A1 19861120**; CA 1275132 A 19901009; CA 1282657 C 19910409; CN 85107669 A 19861112; CN 85107669 B 19881221; EP 0202381 A1 19861126; EP 0202381 B1 19891220; JP S61259780 A 19861118

DOCDB simple family (application)  
**EP 86303613 A 19860513**; CA 493287 A 19851018; CA 508956 A 19860512; CN 85107669 A 19851018; EP 85307524 A 19851017; JP 10093585 A 19850513