Title (en)
METHOD OF DRIVING AN ULTRASONIC OSCILLATOR FOR AN ATOMIZING FLUID

Publication
EP 0123277 B1 19890405 (DE)

Application
EP 84104426 A 19840418

Priority
DE 3314609 A 19830422

Abstract (en)
[origin: EP0123277A2] 1. Method of driving an ultrasonic oscillator (1) for atomisation of liquid, the oscillator (1) being supplied by excitation electronics (11) having an electrical alternating voltage, the frequency (F2) of which can be tuned to the optiomum oscillatory power of the oscillator (1), characterized in that the electrical power (N) supplied is timed to occur in repeated cycles, the power (N1) supplied for a first time interval (DELTA t1) being rated so high that the starting threshold (E) for actually occuring atomisation of liquid (5) is sufficiently hyghly exceeded even when the condition of operational oscillation build-up is unfavourable, the power (N2) supplied for a second time interval (DELTA t2) being rated lower by comparison with the time interval (DELTA t1), and mean of the power see diagramm : EP0123277,P7,F1 supplied, as averaged over the two time intervals (DELTA t1 , DELTA t2) taken together, being matched to the quantitity of liquid (7) which is fed per unit time and is to be atomised.

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B06B 1/06; B05B 17/06

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CPC (source: EP)
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Cited by
US6296196B1; EP0274136A3; US6016821A; CN114130547A; JP2002537985A; AU767322B2; EP1875969A1; FR2903331A1; US5834871A; US6002195A; GB2265845B; US5551416A; EP0219693A1; US4689515A; US7211928B2; WO0051747A1; US6538360B2; US6313565B1; US7336019B1; US7211927B2; US6439474B2; US9333523B2; EP2244314A1; US7004016B1; US6172444B1; US6242847B1; US6288476B1; US6181051B1; US6433460B1; US6914364B2; US6946773B2; US7960894B2

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