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- **Ito, Yuzuro**
Toshima-ku
Tokyo 170-8466 (JP)
- **Tsudome, Hidekazu**
Toshima-ku
Tokyo 170-8466 (JP)
- **Endo, Yoshishige**
Toshima-ku
Tokyo 170-8466 (JP)

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(71) Applicant: **Hitachi Plant Technologies, Ltd.**
Toshima-ku
Tokyo 170-8466 (JP)

(74) Representative: **Beetz & Partner**
Patentanwälte
Steinsdorfstrasse 10
80538 München (DE)

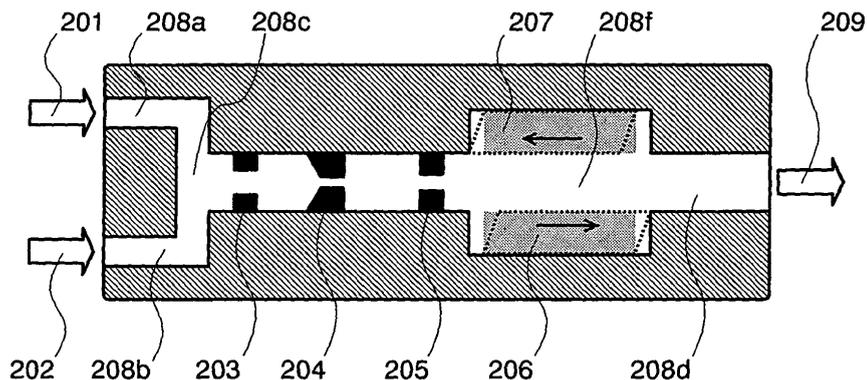
(72) Inventors:
• **Kato, Hajime**
Toshima-ku
Tokyo 170-8466 (JP)

(54) **Emulsification apparatus and fine-grain manufacturing apparatus**

(57) A fine-grain manufacturing apparatus 100 has a fluid device including a microscopic channel that has an orifice 203, 204, 205 which brings liquid to a jet 310, a channel wall having a piezoelectric element 206, 207 that actively oscillates liquid, and a unit that measures

the diameter of grains floating in a fluid and the number of grains. The piezoelectric element 206, 207 oscillates to skid in the same direction as the flowing direction of a fluid. The fine-grain manufacturing apparatus 100 mass-produces grains having diameters thereof controlled.

FIG.2



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EUROPEAN SEARCH REPORT

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The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		21 October 2009	Krasenbrink, B
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	
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Application Number
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The present search report has been drawn up for all claims			
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<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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Application Number
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EPO FORM 1503 03.82 (P04C01)



Application Number

EP 07 02 0543

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

- Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):
- No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:
- The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 07 02 0543

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-2

Group I: apparatus including microscopic channel wall oscillating in the same direction as the liquid flow.

2. claims: 3-8

Group II: apparatus including means for measuring diameter and number of grains.

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 07 02 0543

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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