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(54) **A MACHINE AND A METHOD FOR EMULSIFYING A FOOD PRODUCT**

(57) A machine (1) for emulsifying a food product. The machine conveys a food product from an upstream section past an emulsifier stack to a downstream section by a pressure difference between a pressure in the upstream section and a pressure in the downstream section. To allow improved control of the emulsifying process and potentially allow better flow control of the emulsified food product, the machine further comprises a pressure regulating structure configured to control the pressure difference between the pressure in the upstream section and the pressure in the downstream section.

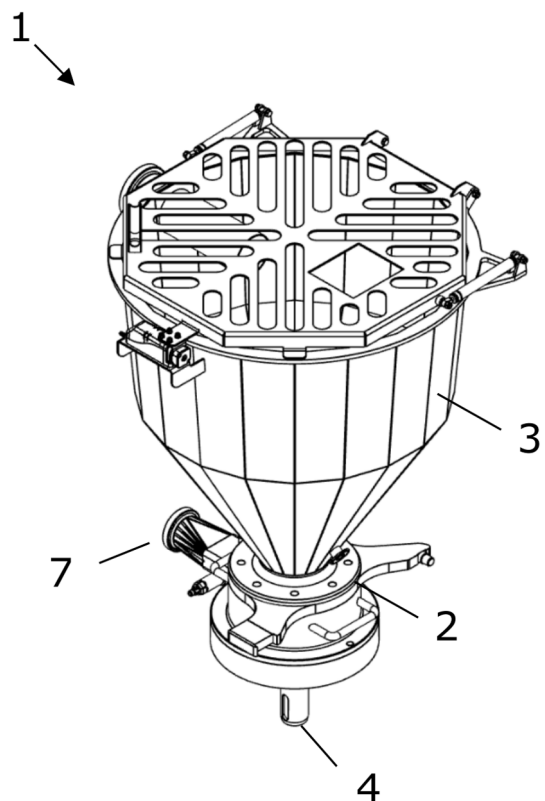


Fig. 1

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EUROPEAN SEARCH REPORT

Application Number

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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X	DE 24 35 797 A1 (BUCK IMMANUEL) 12 February 1976 (1976-02-12) * figures 1-5 * * abstract * -----	9-12	
X	US 3 147 958 A (STIFFLER HUGH A) 8 September 1964 (1964-09-08) * column 2, line 49 - column 4, line 15 * * figures 1, 2, 3, 8 * -----	9-12	
X	US 6 502 980 B1 (EKSTROM DAVID R [US] ET AL) 7 January 2003 (2003-01-07) * figures 1-5 * * abstract * * column 3, line 16 - column 45 * -----	9-12	TECHNICAL FIELDS SEARCHED (IPC) B01F B02C A47J
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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 9 September 2026	Examiner Krasenbrink, B
CATEGORY OF CITED DOCUMENTS 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 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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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

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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: 9-12

ejector knife

2. claims: 1-8, 13-15

machine/method comprising a housing, a shaft, an emulsifier
stack

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

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82