Abstract

Title: BREAD COMPOSITIONS CONTAINING SUGAR BEET PECTINS

Disclosed is a food composition comprising: water, salt, yeast, wheat flour, and sugar beet pectin. Also disclosed is a method for forming ferulic acid crosslinks including the steps of: providing a source of ferulic acid; providing a wheat flour source comprising gluten; mixing together the source of ferulic acid and the wheat flour source to form a dough; and baking the dough whereby ferulic acid crosslinks are formed between the source of ferulic acid and the gluten.
A. CLASSIFICATION OF SUBJECT MATTER
INV. A21D2/18 A21D2/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED
Minimum documentation searched (classification system followed by classification symbols)
A21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database consulted during the international search (name of database and, where practical, search terms used)
EPO-Internal, FSTA, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category*</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 2 356 635 A (ERNST WALDSCHMIDT ET AL) 22 August 1944 (1944-08-22) example 3; table 1</td>
<td>1-5,8-10</td>
</tr>
<tr>
<td>X</td>
<td>US 5 008 254 A (WEIBEL MICHAEL K [US]) 16 April 1991 (1991-04-16) column 9, line 43 - line 56 column 12, line 40 - line 47 column 13, line 28 - line 38; example 4</td>
<td>1-5,8-10</td>
</tr>
</tbody>
</table>

X Further documents are listed in the continuation of Box C.

X See patent family annex.

* Special categories of cited documents:

A* document defining the general state of the art which is not considered to be of particular relevance
E* earlier document but published on or after the international filing date
L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
O* document referring to an oral disclosure, use, exhibition or other means
P* document published prior to the international filing date but later than the priority date claimed

*I* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

*Z* document member of the same patent family

Date of the actual completion of the international search
24 November 2006

Date of mailing of the international search report
12/12/2006

Name and mailing address of the ISA/
European Patent Office, P.B. 5616 Patentlaan 2 NL – 2280 HV Rijswijk
Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,
Fax (+31–70) 340–3016

Authorized officer
Rinaldi, Francesco

Form PCT/WO/210 (second sheet) (April 2005)
<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>US 6 482 430 B1 (WEIGHTMAN RICHARD MARK [GB] ET AL) 19 November 2002 (2002-11-19) column 2, line 24 – line 58</td>
<td>1,2,6,10</td>
</tr>
</tbody>
</table>
Box II  Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III  Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐ The additional search fees were accompanied by the applicant's protest.

☐ No protest accompanied the payment of additional search fees.
This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-5, 8-10
   Compositions comprising wheat and sugar beet pectin

2. claims: 6, 7
   A method directed to cross linking gluten with ferulic acid
<table>
<thead>
<tr>
<th>Patent document cited in search report</th>
<th>Publication date</th>
<th>Patent family member(s)</th>
<th>Publication date</th>
</tr>
</thead>
<tbody>
<tr>
<td>US 2356635</td>
<td>22-08-1944</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td>US 5008254</td>
<td>16-04-1991</td>
<td>NONE</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>AU 6766798 A</td>
<td>12-10-1998</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CN 1251111 A</td>
<td>19-04-2000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EP 0968233 A1</td>
<td>05-01-2000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>WO 9841547 A1</td>
<td>24-09-1998</td>
</tr>
</tbody>
</table>