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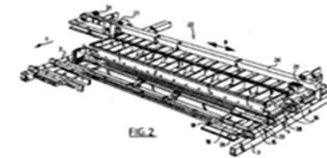
- Front page
- Bibliographic data
- Title
- Abstract
- Description
- Drawings
- Claims
- Search report

		Europäisches Patentamt European Patent Office Office européen des brevets
(19)	(11)	EP 1 000 000 A1
(12)	EUROPEAN PATENT APPLICATION	
(43) Date of publication: 17.05.2000 Bulletin 2000/20	(51) Int. Cl. <sup>7</sup> :	B28B 5/02, B28B 7/00, B28B 1/29
(21) Application number: 99203729.1		
(22) Date of filing: 08.11.1999		
(84) Designated Contracting States: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MD NL PT SE Designated Extension States: AL LT LV MK RO SI	(72) Inventor: Kosman, Wilhelmus Jacobus Maria 6562 DA Groesbeek (NL)	
(30) Priority: 12.11.1998 NL 1010536	(74) Representative: Schumann, Bernard Herman Johan et al Arnold & Siedsma, Advocaten en Octrooigemachtigden, Sweelinckplein 1 2517 GK Den Haag (NL)	
(71) Applicant: Beheermaatschappij De Boer Nijmegen B.V. 6541 BS Nijmegen (NL)		

(54) Apparatus for manufacturing green bricks for the brick manufacturing industry

(57) The invention relates to an apparatus (1) for manufacturing green bricks from clay for the brick manufacturing industry, comprising a circulating conveyor (3) carrying mould containers combined to mould container parts (4), a reservoir (5) for clay arranged above the mould containers, means for carrying clay out of the reservoir (5) into the mould containers, means (9) for pressing and trimming clay in the mould containers, means (11) for supplying and placing take-off plates for the green bricks (13) and means for discharging green bricks released from the mould containers, characterized in that the apparatus further comprises means (22) for moving the mould container parts (4) filled with green bricks such that a

protruding edge is formed on at least one side of the green bricks.



EP 1 000 000 A1

# Front page

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Search Result list My patents list (0) Query history Settings Help

EP0405370 (B2)

## Bibliographic data

Description

Claims

Abstract

Original document

Cited documents

Citing documents

INPADOC legal status

INPADOC patent family

Quick help

→ What is meant by high quality text as facsimile?

→ What does A1, A2, A3 and B stand for after a European publication number?

→ What happens if I click on "In my patents list"?

→ What happens if I click on the "Register" button?

→ Why are some sidebar options deactivated for certain documents?

→ How can I bookmark this page?

→ Why does a list of documents with the heading "Also published as" sometimes appear, and what are these documents?

→ Why do I sometimes find the abstract of a corresponding document?

→ What happens if I click on the red "patent translate" button?

→ What is Global Dossier?

## Bibliographic data: EP0405370 (B2) — 2007-12-19

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### Riboflavinoverproducing strains of bacteria

Page bookmark [EP0405370 \(B2\) - Riboflavinoverproducing strains of bacteria](#)

Inventor(s): PERKINS JOHN B [US]; PERO JANICE G [US]; SLOMA ALAN [US] ±

Applicant(s): DSM IP ASSETS BV [NL] ±

Classification: - International: [C07H21/04](#); [C12N1/20](#); [C12N1/21](#); [C12N1/50](#); [C12N1/58](#); [C12N1/52](#); [C12P17/16](#); [C12P25/00](#); [C12R1/123](#); [C12R1/19](#)

- cooperative: [C12N1/52](#); [C12P25/00](#)

Application number: EP19900111916 19900622 [Global Dossier](#)

Priority number(s): [US19890370378 19890622](#)

Also published as: [EP0405370 \(A1\)](#) [EP0405370 \(B1\)](#) → [AT195971 \(T\)](#) [CN1049185 \(A\)](#) [CN1066486 \(C\)](#) → [more](#)

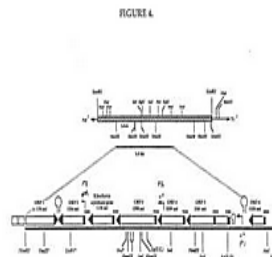
### Abstract of EP0405370 (A1)

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The present invention is directed to bacteria that overproduce riboflavin. The invention concerns the nucleotide sequence of the ribo operon and its open reading frames, and recombinant bacteria that contain the ribo operon. Specifically, the invention relates to bacteria that have been mutated so that their production of riboflavin and/or purines is deregulated, and which have copies of the ribo operon inserted and amplified in their chromosomal DNA. In a specific embodiment, the ribo operon itself can be deregulated by replacing its control regions with sequences that allow constitutive or unregulated expression. The bacteria, operons and sequences of this invention are used to overproduce relatively large amounts of riboflavin by fermentation.



(11) EP 0 405 370 B2

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(45) Date of publication and mention of the opposition decision: 19.12.2007 Bulletin 2007/51 (51) Int. Cl.: [C12N 15/52](#) (2006.01) [C12P 25/00](#) (2006.01) [C12N 1/20](#) (2006.01) [C12R 1/123](#) (2006.01) [C12R 1/19](#) (2006.01)

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(22) Date of filing: 22.06.1990

(54) Riboflavinoverproducing strains of bacteria  
Riboflavin überproduzierende Bakterienstämme  
Souches de bactéries surproductrices de riboflavine

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(30) Priority: 22.06.1989 US 370378

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(60) Divisional application:  
99124888.1 / 1 001 026

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(56) References cited:  
FR-A- 2 546 907

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EP 0 405 370 B2

# The description

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Search Result list My patents list (0) Query history Settings Help

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Bibliographic data  
**Description**  
Claims  
Mosaics  
Original document  
Cited documents  
Citing documents  
INPADOC legal status  
INPADOC patent family

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- What happens if I click on the "Register" button?
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- Why is the description sometimes in French or German or another language altogether?
- How can I search in the text of the description?
- How can I view chemical structures in the full text?
- What is Global Dossier?

**Description: EP0405370 (B2) — 2007-12-19**

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Riboflavinoverproducing strains of bacteria

Description of EP0405370 (B2)

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[0001] Riboflavin (vitamin B2) is synthesized by all plants and many microorganisms but is not produced by higher animals. Because it is a pro-coenzymes such as folic acid, biotin, riboflavin, and thiamine, riboflavin is essential to basic metabolism. In higher animals, insufficient riboflavin can cause loss of hair, inflammation of the skin, vision deterioration, and other failure.

[0002] Riboflavin can be commercially produced either by a complete chemical synthesis, starting with ribose, or by fermentation with the fungi *Erinosectria asmyli* or *Ashbya gossypii* (The Merck Index, Wincholtz et al., eds., Merck & Co., p. 1153, 1983). Mutants of *Erinosectria asmyli* and exposure to the purine analogs azaguanine and azacanthine, have been reported to produce riboflavin in recoverable amounts (U.S. Patent No. 4,091,000; Enel et al., 1975). In general, exposure to purine or riboflavin analogs selects for degenerated mutants that exhibit increased riboflavin biosynthesis because the mutations allow the microorganism to "compete out" the analog by increased production (Matsui et al., Agric. Biol. Chem. 46:2003, 1972). A purine-requiring mutant of *Saccharomyces cerevisiae* that produces riboflavin has also been reported (U.S. Patent No. 4,794,081; Kawai et al., J. Bacteriol. 157:1151-1156, 1979). It is reported that the riboflavin operon (rfo operon) of *B. subtilis* is contained within a 7 megabase (Mb) fragment (later referred to as a 6.3 Mb fragment in Chikindess et al., Mol. Genet. Metab. 100:203-210, 1997). It is reported that amplification of operon may have been achieved in *E. coli* by cloning the operon into a plasmid that conferred resistance to ampicillin and exposing bacteria to increasing amounts of the antibiotic. The only evidence for rfo amplification is a coincident increase in the presence of a green-fluorescing substance in the medium; the authors present a number of alternative possibilities besides an actual amplification of the operon to the phenomenon observed.

[0003] French Patent Application No. 2,546,907, by Stepanov et al. (published December 7, 1984), discloses a method for producing riboflavin by a mutant strain of *B. subtilis* which has been exposed to azaguanine and riboflavin and that is transformed with a plasmid containing a copy of the

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Search Result list My patents list (0) Query history Settings Help

Refine search → Results page 1 → US2018206540 (A1)

US2018206540 (A1)

Bibliographic data  
**Description**  
Claims  
Mosaics  
Original document  
Cited documents  
Citing documents  
INPADOC legal status  
INPADOC patent family

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- What is meant by high quality text as facsimile?
- What happens if I click on "in my patents list"?
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- Why is the description sometimes in French or German or another language altogether?
- How can I search in the text of the description?
- How can I view chemical structures in the full text?
- What is Global Dossier?

**Description: US2018206540 (A1) — 2018-07-26**

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LACTIC ACID BACTERIUM-CONTAINING FAT OR OIL COMPOSITION AND METHOD FOR MANUFACTURING SAME

Description of US2018206540 (A1)

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▢ CN107846919 (A) ▢ EP3305086 (A1) ▢ JPWO2016194366 (A1) ▢ TW201717784 (A) ▢ WO2016194366 (A1)

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TECHNICAL FIELD

[0001] The present invention relates to a lactic acid bacterium-containing fat or oil composition containing a viable lactic acid bacterium and a method for manufacturing the same.

BACKGROUND ART

[0002] A lactic acid bacterium is a bacterium that produces lactic acid from sugars. As a bacterium producing lactic acid from sugars by fermentation (lactic acid fermentation), the genera *Lactobacillus*, *Enterococcus*, *Lactococcus*, *Pediococcus*, *Leuconostoc*, etc. are known. *Bifidobacterium* is also known as a bacterium that decomposes sugars to produce lactic acid and acetic acid. Bacteria of the genus *Bifidobacterium* may be classified as *Bacillus bifidus* separately from lactic acid bacteria, but in the present specification, bacteria of the genus *Bifidobacterium* are also included in lactic acid bacteria.

[0003] Many kinds of microorganisms live in the human intestine, and lactic acid bacteria belonging to the genera *Lactobacillus* and *Bifidobacterium* are detected from almost all human intestines.

[0004] Probiotics have been defined by a British microbiologist Fuller as "living microorganisms that bring beneficial effects to humans by improving the balance of the intestinal flora", and it is preferable that such probiotics reach the intestine in a living state and can grow in the intestinal environment. Some of lactic acid bacteria regulate the immune system, endocrine system, nervous system and the like, in addition to the regulation of the intestinal flora, and are attracting attention as probiotics.

[0005] It is desirable to ingest lactic acid bacteria for health promotion and maintenance. Yogurt, lactic acid bacteria beverages, etc. are common as foods containing lactic acid bacteria. In addition to these, lactic acid bacterium-containing foods as a probiotic that is more convenient and more palatable meet the needs of modern people seeking all of health, convenience and palatability.

[0006] Patent Literature 1 discloses a chocolate containing lactic acid bacteria including viable *Bacillus bifidus*, but discloses a technique for improving stability from the time of manufacturing. This technique does not improve the survival rate of lactic acid bacteria in the manufacturing process and the survival rate of lactic acid bacteria in digestion and absorption after ingestion.

# The drawings

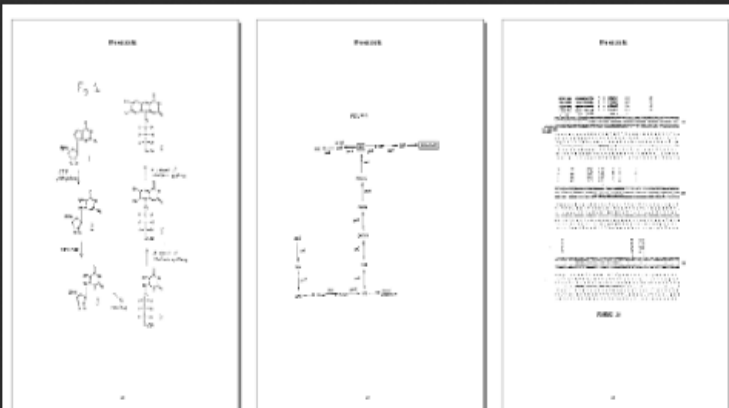
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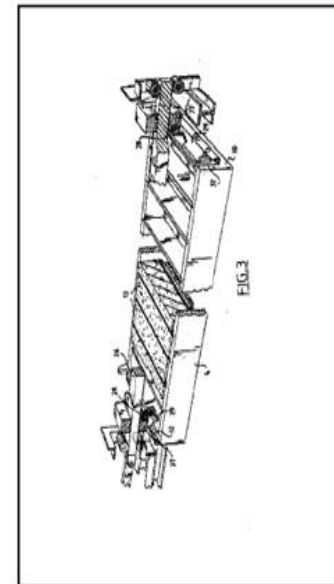
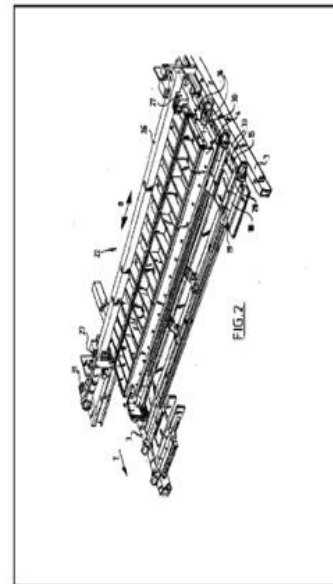
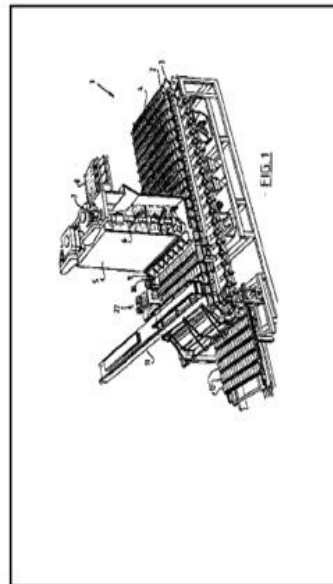
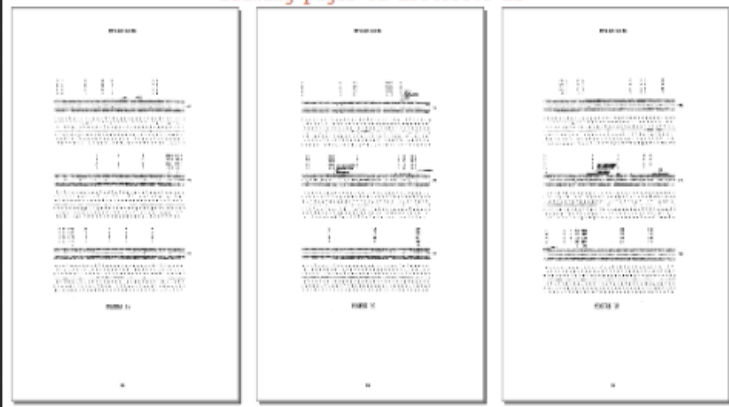
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Page 1/6 Drawings    Download

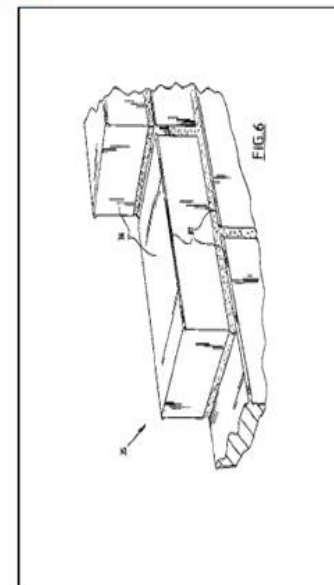
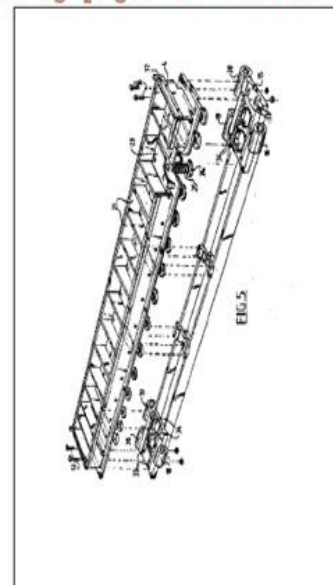
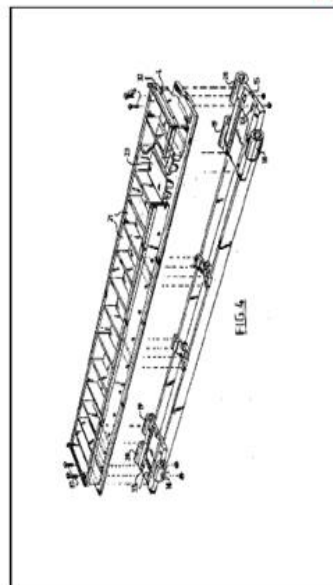
1 of 1    Automatic Zoom



Drawing pages of EP0405370 B2



Drawing pages of EP1000000 A1



# The claims

EP0405370 (B2)

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Description

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Abstract

Original document

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Riboflavinoverproducing strains of bacteria

Claims of EP0405370 (B2)

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EP0405370 (B2) JP2003117469 (A) JP200309992 (A)

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Original claims	Claims free
<p>The EPO does not accept any responsibility for the accuracy of data and information originating from other authorities than the EPO, in particular, the EPO does not guarantee that they are complete, up-to-date or fit for specific purposes.</p> <p>1. A recombinant bacterium which has been transformed by a vector comprising first a nucleic acid sequence of bacterial or yeast origin coding for one or more riboflavin biosynthetic proteins and second one or more transcription elements which are not naturally associated but which are now transcriptionally linked with the nucleic acid sequence whereby a plurality of copies of said nucleic acid sequence including said transcription elements has been introduced at one or more sites within its chromosome and said nucleic acid sequence including said transcription elements is heritable and capable of expression by the bacterium such that the riboflavin biosynthesis by the bacterium is increased relative to a bacterium lacking the plurality of such nucleic acid sequence including said transcription elements.</p> <p>2. A recombinant bacterium according to claim 1 wherein said nucleic acid sequence of bacterial origin is derived from <i>Bacillus</i>, especially <i>Bacillus subtilis</i> or <i>B. coli</i>.</p> <p>3. A recombinant bacterium according to claim 1 or 2 wherein said nucleic acid sequence is coding for at least 5 riboflavin biosynthetic proteins.</p> <p>4. A recombinant bacterium according to any one of claims 1 to 3 which comprises one or two such transcription elements.</p> <p>5. A recombinant bacterium according to any one of claims 1 to 4 wherein said transcription element is a promoter.</p> <p>6. A recombinant bacterium according to claim 5 wherein said promoter is a promoter chosen from a promoter naturally associated with a gene from a POU bacteriophage, a promoter naturally associated with <i>veg</i>, <i>amy</i>, <i>ago</i>, and <i>spg</i>, and other transcription regulatory elements activated by the gene product of <i>saclD</i>.</p> <p>7. A recombinant bacterium according to any one of claims 1 to 6 wherein said nucleic acid sequence including said transcription elements has been introduced at one or two sites within its chromosome.</p> <p>8. A recombinant bacterium according to any one of claims 1 to 7 wherein said bacterium is designated for riboflavin gene expression.</p> <p>9. A recombinant bacterium according to any one of claims 1 to 8 wherein said bacterium is an <i>E. coli</i> or <i>Bacillus</i>, especially <i>Bacillus subtilis</i> strain.</p> <p>10. A process for the production of riboflavin characterized by growing a recombinant bacterium according to any one of claims 1 to 9 under suitable growth conditions.</p> <p>11. A process according to claim 10 wherein such suitable growth conditions are characterized by limiting the availability of a component of the growth medium in such a way that aerobic conditions for the growth of said recombinant bacterium are maintained.</p> <p>12. A process according to claim 11, wherein said component is chosen from a carbon source, nitrogen source or a component required by said recombinant bacterium.</p> <p>13. A process according to claim 12, wherein said component is glucose, or a carbonic acid.</p> <p>14. A process according to claim 11, wherein said limiting step comprises limiting introduction of said component in a feed medium.</p> <p>15. A process according to claim 14, wherein said component is glucose, or a carbonic acid.</p>	

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EP0405370 (B2) → US2018206540 (A1)

US2018206540 (A1)

Biographic data

Description

**Claims**

Abstract

Original document

Cited documents

Cling documents

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INPADOC patent family

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How can I search in the text of the claims?

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Claims: US2018206540 (A1) — 2018-07-26

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LACTIC ACID BACTERIUM-CONTAINING FAT OR OIL COMPOSITION AND METHOD FOR MANUFACTURING SAME

Claims of US2018206540 (A1)

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US2018206540 (A1) EP2329526 (A1) JPWC2016194266 (A1) TW201711794 (A1) WO2016194266 (A1)

Original claims	Claims free
<p>The EPO does not accept any responsibility for the accuracy of data and information originating from other authorities than the EPO, in particular, the EPO does not guarantee that they are complete, up-to-date or fit for specific purposes.</p> <p>1. A lactic acid bacterium-containing fat or oil composition containing a viable lactic acid bacterium.</p> <p>2. The lactic acid bacterium-containing fat or oil composition according to claim 1, wherein the lactic acid bacterium is one or more kinds selected from the group consisting of <i>Lactobacillus</i>, <i>Enterococcus</i>, <i>Bifidobacterium</i>, <i>Leuconostoc</i>, <i>Streptococcus</i>, <i>Lactococcus</i>, and <i>Pediococcus</i>.</p> <p>3. The lactic acid bacterium-containing fat or oil composition according to claim 1, wherein the lactic acid bacterium is one or more kinds selected from the group consisting of <i>Lactobacillus</i>, <i>Enterococcus</i>, <i>Bifidobacterium</i>, and <i>Leuconostoc</i>.</p> <p>4. The lactic acid bacterium-containing fat or oil composition according to claim 1, which contains from 1×10<sup>4</sup> to 1×10<sup>12</sup> lactic acid bacteria/g.</p> <p>5. The lactic acid bacterium-containing fat or oil composition according to claim 1, which contains from 1×10<sup>4</sup> to 1×10<sup>12</sup> lactic acid bacteria/g.</p> <p>6. The lactic acid bacterium-containing fat or oil composition according to claim 1, wherein the fat or oil composition is a chocolate.</p> <p>7. The lactic acid bacterium-containing fat or oil composition according to claim 1, further comprising a center material.</p> <p>8. The lactic acid bacterium-containing fat or oil composition according to claim 7, wherein the center material is an almond.</p> <p>9. The lactic acid bacterium-containing fat or oil composition according to claim 1, wherein a viable lactic acid bacterium is delivered to the intestine.</p> <p>10. A food containing the lactic acid bacterium-containing fat or oil composition according to claim 1.</p> <p>11. A food for delivering a viable lactic acid bacterium to the intestine, comprising the lactic acid bacterium-containing fat or oil composition according to claim 1.</p> <p>12. A method for manufacturing a lactic acid bacterium-containing chocolate, the method comprising adding lactic acid bacteria powder to a chocolate dough after tempering and before molding.</p> <p>13. The method for manufacturing a lactic acid bacterium-containing chocolate according to claim 12, wherein the temperature of the chocolate dough is from 27° C. to 31° C. when the lactic acid bacteria powder is added.</p> <p>14. The method for manufacturing a lactic acid bacterium-containing chocolate according to claim 12, wherein the temperature of the chocolate dough is from 25° C. to 30° C. when the lactic acid bacteria powder is added.</p> <p>15. A method for manufacturing a lactic acid bacterium-containing chocolate, the method comprising mixing a high concentration of lactic acid bacteria powder with a chocolate to manufacture a chocolate with a high lactic acid bacterium concentration, and adding the chocolate with a high lactic acid bacterium concentration to a chocolate dough after tempering and before molding.</p>	



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**WO2010075960 (A2)**  
[Bibliographic data](#)  
[Description](#)  
[Claims](#)  
[Mosaics](#)  
[Original document](#)  
**[Cited documents](#)**  
[Citing documents](#)  
[INPADOC legal status](#)  
[INPADOC patent family](#)

**Cited documents: WO2010075960 (A2) — 2010-07-08**

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3 documents cited in relation to WO2010075960 (A2)

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**Patents cited by the applicant**

1. **Riboflavinoverproducing strains of bacteria.**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
PERKINS JOHN B [US]	HOFFMANN LA ROCHE [CH]	<a href="#">C12N15/52</a> <a href="#">C12P25/00</a>	C07H21/04 C12N1/21 C12N15/00	EP0405370 (A1) 1991-01-02 EP0405370 (B1) 2000-08-30 EP0405370 (B2) 2007-12-19	1989-06-22
PERO JANICE G [US] (+1)					

2. **PRODUCTION OF PANTOTHENATE USING MICROORGANISMS INCAPABLE OF SPORULATION**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
PERKINS JOHN [CH] PRAGAI ZOLTAN [CH]	DSM IP ASSETS BV [NL] PERKINS JOHN [CH] (+1)	<a href="#">C12N3/00</a> <a href="#">C12P13/02</a>	C12N1/21 C12N3/00 C12P13/02 (+4) 2005-0	WO2004113510 (A2) 2004-1 WO2004113510 (A2) 2005-0	2003-06-18

3. **MODIFIED TRANSKETOLASE AND USE THEREOF**

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:
LEHMANN MARTIN [DE]	DSM IP ASSETS BV [NL] LEHMANN MARTIN [DE]	<a href="#">C12N9/1022</a> <a href="#">C12P17/12</a> <a href="#">C12P25/00</a>	C12N9/10 C12P25/00	WO2007051552 (A1) 2007-0

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3 documents cited in relation to WO2010075960 (A2)  
Displaying selected publications

Publication	Title	Page
EP0405370 (A1)	Riboflavinoverproducing strains of ba...	2
WO2004113510 (A2)	PRODUCTION OF PANTOTHENATE USING MICR...	3
WO2007051552 (A1)	MODIFIED TRANSKETOLASE AND USE THEREOF	4

# Legal status



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Refine search → Results page 1 → EP0405370 (B2) → Citations page 1 → WO2010075960 (A2)

WO2010075960 (A2)  
Bibliographic data  
Description  
Claims  
Mosaics  
Original document  
Cited documents  
Citing documents  
**INPADOC legal status**  
INPADOC patent family

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## INPADOC legal status: WO2010075960 (A2) — 2010-07-08

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### METHOD FOR PRODUCING RIBOFLAVIN

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Legal status of WO2010075960 (A2) 2010-07-08; WO2010075960 (A3) 2010-09-10; WO2010075960 (A8) 2011-06-23:

WO	F	2009008987	W (Patent of invention)
Event date :	2010/08/25		
Event code :	121		
Code Expl.:	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION		
CC OF CORRESP. PAT. :	EP		
CORRESP. PATENT D. :	09796959		
KD OF CORRESP. PAT. :	A2		
Event date :	2011/06/08		
Event code :	WWE		
Code Expl.:	+ WIPO INFORMATION: ENTRY INTO NATIONAL PHASE		
CC OF CORRESP. PAT. :	JP		

# Commercial relevance: technological impact (I)

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Search Result list  My patents list (0) Query history Settings Help

Refine search → Results page 1 → EP0405370 (B2) → Citations page 1

EP0405370 (B2)

Bibliographic data

Description

Claims

Mosaics


Original document

Cited documents

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### 1. METHOD FOR PRODUCING RIBOFLAVIN

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
KIRCHNER FLORIAN [DE]	DSM IP ASSETS BV IN SILICO	<a href="#">C07K14/32</a> <a href="#">C12P25/00</a>	C07K14/32 C12N15/31 C12P25/00	WO2010075960 (A2) 2010-07-08 WO2010075960 (A3) 2010-09-10 WO2010075960 (A8) 2011-06-23	2008-12-15
MAUCH KLAUS [DE] (+1)	BIOTECHNOLOGY AG (+3)				

### 2. Improved production of riboflavin

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
LEHMANN MARTIN [DE]	DSM IP ASSETS BV [NL]	<a href="#">C07K14/32</a> <a href="#">C12N15/52</a> <a href="#">C12P25/00</a>	C12N1/08 C12N15/75 C12P25/00	EP2186880 (A1) 2010-05-19	2008-11-07

### 3. Riboflavin synthesis in yeast

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
REVUELTA DOVAL JOSE LUIS [ES] SANTOS GARCIA MARIA ANGELES [ES] (+3)	BASF AG [DE]	<a href="#">C12N15/52</a> <a href="#">C12N9/00</a> <a href="#">C12N9/0004</a> (+3)	C12N1/15 C12N1/19 C12N1/21 (+14)	US6929933 (B1) 2005-08-16	1992-11-19

### 4. Riboflavin-production process by means of micro-organisms with modified isocitratlyase activity

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
KAESLER BRUNO [DE]	BASF AG [DE]	<a href="#">A23K20/174</a>	A23K1/16	US5976844 (A)	1995-07-13

# Commercial relevance: technological impact (II)

US4800159 (A)
Bibliographic data
Description
Claims
Mosaics
Original document
Cited documents
<b>Citing documents</b>
INPADOC legal status
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Approximately 1,329 document citing US4800159 (A)  
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248 (2010)

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### 1. Nucleic acid detection system and method for detecting influenza

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
CAI HONG [US] SONG JIAN [US]	CAI HONG [US] SONG JIAN [US] (+1)	<a href="#">C12P19/34</a> <a href="#">C12Q1/68</a>	C12P19/34 C12Q1/68	US8980561 (B1) 2015-03-17	2006-08-22

839 (May 2012)

### 2. Microfluidic device for cell separation and uses thereof

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
TONER MEHMET [US] TRUSKEY GEORGE [US] (+1)	TONER MEHMET, TRUSKEY GEORGE, (+2)	<a href="#">B01L2200/0647</a> <a href="#">B01L2200/0668</a> <a href="#">B01L2300/0681</a> (+20)	B01L11/00 B01L3/00 C12M1/34 (+6)	US2006134599 (A1) 2006-06-22 US8895298 (B2) 2014-11-25	2002-09-27

980 (Nov 2012)

### 3. Oncolytic Farminqton rhabdovirus

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
STOJDL DAVID F [CA]	OTTAWA HOSPITAL RES INST [CA]	<a href="#">A61K35/761</a> <a href="#">A61K35/763</a> <a href="#">A61K35/766</a> (+6)	A61K35/76 A61K35/761 A61K35/763 (+6)	EP2839837 (A1) 2015-02-25	2006-09-15

1 269 (Oct 2014)

### 4. Methods And Compositions For Detecting Aspergillus Terreus, Aspergillus Niger, And Mycotoxins

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
HOOPER DENNIS G [US]	MEDICAL SERVICE CONSULTATION INTERNAT LLC [US]	<a href="#">C12Q1/6895</a> <a href="#">C12Q2561/113</a> <a href="#">C12Q2600/112</a>	C12Q1/68	US2014221504 (A1) 2014-08-07 US8956821 (B2) 2015-02-17	2013-02-06

1 329 (May 2015)

# Commercial relevance: movers and shakers

## Bibliographic data: US4800159 (A) — 1989-01-24

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## Process for amplifying, detecting, and/or cloning nucleic acid sequences

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Page bookmark   [US4800159 \(A\) - Process for amplifying, detecting, and/or cloning nucleic acid sequences](#)

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**Inventor(s):**   MULLIS KARY B [US]; ERlich HENRY A [US]; ARNHEIM NORMAN [US]; HORN GLENN T [US]; SAIKI RANDALL K [US]; SCHARF STEPHEN J [US] ±

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**Applicant(s):**   CETUS CORP [US] ±

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- Google Chrome: v30 or above
- Mozilla Firefox: v27 or ESR 31 or above
- Apple Safari (Mac): v7 or above
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Application number:  DE19971031696

Priority number:  WO1995US15925

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Publication date:  yyyyymmdd

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Applicant(s):  Institut Pasteur

Inventor(s):  Smith

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IPC  H03M1/12

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Search for

View section **Index** | A | B | C | D | E | F | G | H | Y

**CPC**   2000

A »

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## Cooperative Patent Classification

Search for

polypeptide antibody

Search

View section

**Index**

A

B

C

D

E

F

G

H

Y



A »

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Search for

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[A »](#)

Symbol	Classification and description
▼ ★★☆☆	<input type="checkbox"/> <b>C07K 16/00</b> Immunoglobulins [IGs], e.g. monoclonal or polyclonal antibodies {(antibodies with enzymatic activity, e.g. abzymes <a href="#">C12N 9/0002</a> )}
▼ ★★☆☆	<input type="checkbox"/> <b>C07K 2317/00</b> Immunoglobulins specific features
▼ ★★☆☆	<input type="checkbox"/> <b>A61K 39/00</b> Medicinal preparations containing antigens or antibodies (materials for immunoassay <a href="#">G01N 33/53</a> )
▼ ★★☆☆	<input type="checkbox"/> <b>C07K 14/00</b> Peptides having more than 20 amino acids; Gastrins; Somatostatins; Melanotropins; Derivatives thereof
▼ ★★☆☆	<input type="checkbox"/> <b>G01N 33/00</b> Investigating or analysing materials by specific methods not covered by the preceding groups
▼ ★★☆☆	<input type="checkbox"/> <b>C07K 2319/00</b> Fusion polypeptide
▼ ★★☆☆	<input type="checkbox"/> <b>A61K 47/00</b> Medicinal preparations characterised by the non-active ingredients used, e.g. carriers, inert additives
▼ ★★☆☆	<input type="checkbox"/> <b>A61K 45/00</b> Medicinal preparations containing active ingredients not provided for in groups <a href="#">A61K 31/00</a> to <a href="#">A61K 41/00</a>
▼ ★★☆☆	<input type="checkbox"/> <b>A61K 38/00</b> Medicinal preparations containing peptides (peptides containing beta-lactam rings <a href="#">A61K 31/00</a> ; cyclic dipeptides not having in their molecule any other peptide link than those which form their ring, e.g. piperazine-2,5-diones, <a href="#">A61K 31/00</a> ; ergot alkaloids of the cyclic peptide type <a href="#">A61K 31/48</a> ; containing macromolecular compounds having statistically distributed amino acid units <a href="#">A61K 31/74</a> ; medicinal preparations containing antigens or antibodies <a href="#">A61K 39/00</a> ; medicinal preparations characterised by the non-active ingredients, e.g. peptides as drug carriers, <a href="#">A61K 47/00</a> )

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Search for  Search View section | Index | A | B | C | D | E | F | G | H | Y |

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	<input type="checkbox"/>	C07K 16/005	• {constructed by phage libraries}
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	<input type="checkbox"/>	C07K 16/004	• from milk
	<input type="checkbox"/>	C07K 16/006	• from serum
	<input type="checkbox"/>	C07K 16/065	•• {Purification, fragmentation}
	<input type="checkbox"/>	C07K 16/008	• against material from viruses
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	<input type="checkbox"/>	C07K 16/082	••• {Hepadnaviridae, e.g. hepatitis B virus}
	<input type="checkbox"/>	C07K 16/084	••• {Papovaviridae, e.g. papillomavirus, polyomavirus, SV40, BK virus, JC virus}
	<input type="checkbox"/>	C07K 16/085	•••• {Herpetoviridae, e.g. pseudorabies virus, Epstein-Barr virus}
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	<input type="checkbox"/>	C07K 16/088	••••• {Varicella-zoster virus, e.g. cytomegalovirus}
	<input type="checkbox"/>	C07K 16/10	•• from RNA viruses {, e.g. hepatitis E virus}
	<input type="checkbox"/>	C07K 16/1009	•••• {Picornaviridae, e.g. hepatitis A virus}
	<input type="checkbox"/>	C07K 16/1018	•••• {Orthomyxoviridae, e.g. influenza virus}
	<input type="checkbox"/>	C07K 16/1027	•••• {Paramyxoviridae, e.g. respiratory syncytial virus}
	<input type="checkbox"/>	C07K 16/1036	•••• {Retroviridae, e.g. leukemia viruses}
	<input type="checkbox"/>	C07K 16/1045	••••• {Lentiviridae, e.g. HIV, FIV, SIV}
	<input type="checkbox"/>	C07K 16/1054	•••••• {gag-pol, e.g. p17, p24}
	<input type="checkbox"/>	C07K 16/1063	••••••• {env, e.g. gp41, gp110/120, gp180, V3, PND, CD4 binding site}
	<input type="checkbox"/>	C07K 16/1072	••••••• {Regulatory proteins, e.g. tat, rev, vpt}
	<input type="checkbox"/>	C07K 16/1081	••••••• {Togaviridae, e.g. flavivirus, rubella virus, hog cholera virus}
	<input checked="" type="checkbox"/>	C07K 16/109	••••••• {Hepatitis C virus; Hepatitis G virus}
	<input type="checkbox"/>	C07K 16/12	• against material from bacteria
	<input type="checkbox"/>	C07K 16/1203	•• {from Gram-negative bacteria}



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## Cooperative Patent Classification

Search for

A63C17

Search

View section

**Index**

A

B

C

D

E

F

G

H

Y



A »

Symbol	Classification and description	
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View section | Index **A** B C D E F G H Y

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« A63C13/00 A63C19/00 »

**Symbol** **Classification and description**

**A** **HUMAN NECESSITIES** [S]

### Health; amusement

**A63** **SPORTS; GAMES; AMUSEMENTS**

**A63C** **SKATES; SKIS; ROLLER SKATES; DESIGN OR LAYOUT OF COURTS, RINKS OR THE LIKE** [S] [D] ⓘ  
(devices for underwater sports [A63B 31/00](#), [A63B 33/00](#), [B63C 11/00](#); devices for gliding on water, e.g. water skis, [B63B 35/79](#), [B63B 35/81](#), [B63B 35/83](#))

### Skis; Accessories for skiing

**A63C 17/00** **Roller skates; Skate-boards** [D]

**A63C 17/0006** • {Accessories}

**A63C 17/0013** • • {Devices used in combination with the skate but not fixed to it, e.g. supporting frames, sail, sticks, auxiliary wheel aid [B62D 51/06](#) Uniaxle walk-type tractors} [D]

**A63C 17/002** • • {Covers; Guards}

**A63C 17/0026** • {Roller skates used otherwise than standing or sitting on them, e.g. body skates}

**A63C 17/0033** • with a castor wheel, i.e. a swiveling follow-up wheel

**A63C 17/004** • with auxiliary wheels not contacting the riding surface during steady riding

**A63C 17/0046** • {with shock absorption or suspension system}

**A63C 2017/0053** • {with foot plate quick release or shoe binding}

**A63C 17/006** • {with wheels of different size or type}

**A63C 17/0066** • {with inclined wheel, i.e. not perpendicular to the surface it rolls on}

**A63C 17/0073** • {with offset wheel, i.e. wheel contact point to surface offset from other associated wheel}

**A63C 17/008** • {with retractable wheel, i.e. movable relative to the chassis out of contact from surface}

**A63C 17/0086** • {Roller skates adjustable in length to fit the size of the foot}

**A63C 17/0093** • {Mechanisms transforming leaning into steering through an inclined geometrical axis, e.g. truck ([A63C 17/011](#) takes precedence)} [D]

**A63C 17/01** • Skateboards ([A63C 17/02](#) to [A63C 17/28](#) take precedence; { rolling devices on skis [A63C 5/035](#)}) [D]

### Skis; Accessories for skiing

**A63C 17/00** **Roller skates; Skate-boards**

**A63C 17/12** • with driving mechanisms

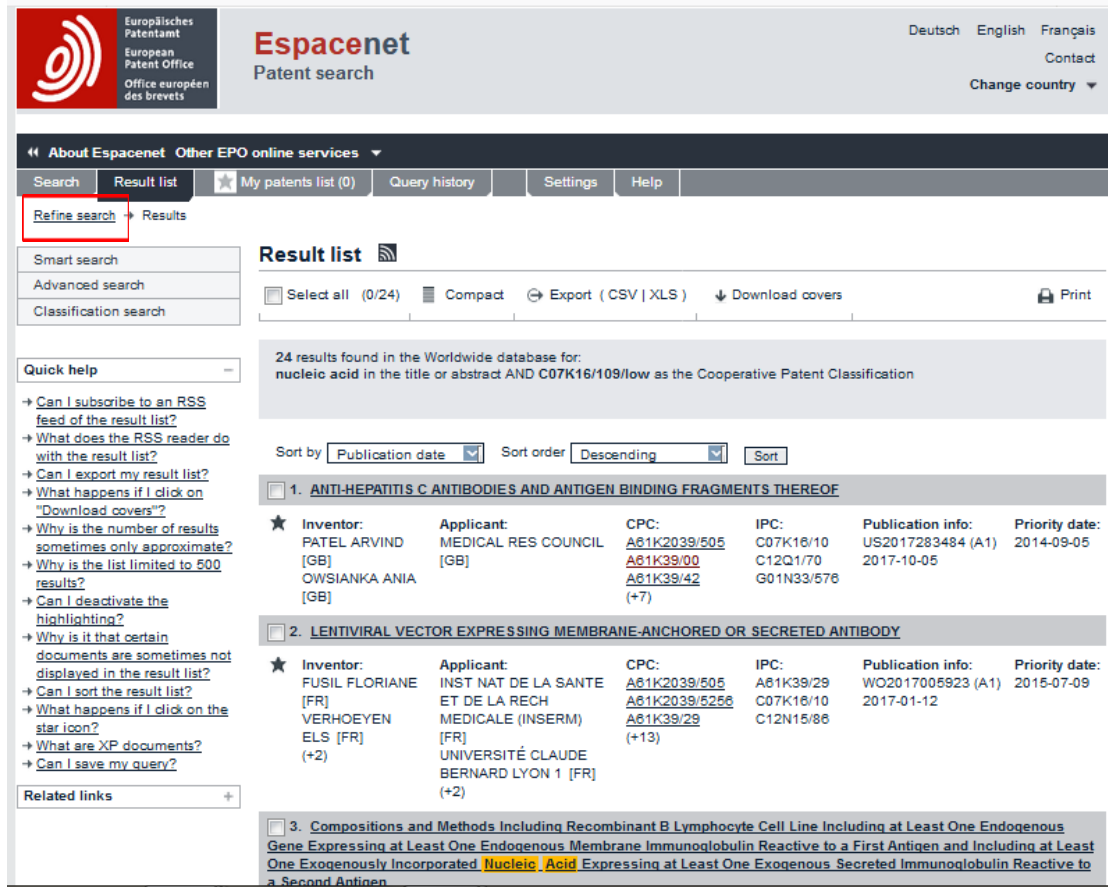
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- کپی برداری از کد و افزودن آن در بخش جستجوی پیشرفته
- بهبود جستجو با استفاده از کلیدواژه ها
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2. LENTIVIRAL VECTOR EXPRESSING MEMBRANE-ANCHORED OR SECRETED ANTIBODY

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
FUSIL FLORIANE [FR]	INST NAT DE LA SANTE ET DE LA RECH	<a href="#">A61K2039/505</a>	A61K39/29	WO2017005923 (A1)	2015-07-09
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**Inventor(s):** FUSIL FLORIANE [FR]; VERHOEYEN ELS [FR]; DEFRANCE THIERRY [FR]; COSSET FRANÇOIS-LOÏC [FR] ±

**Applicant(s):** INST NAT DE LA SANTE ET DE LA RECH MEDICALE (INSERM) [FR]; UNIVERSITÉ CLAUDE BERNARD LYON 1 [FR]; CENTRE NAT RECH SCIENT [FR]; ECOLE NORMALE SUPERIEURE LYON [FR] ±

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Applicant(s): INST NAT DE LA SANTE ET DE LA RECH MEDICALE (INSERM) [FR]; UNIVERSITÉ CLAUDE BERNARD LYON 1 [FR]; CENTRE NAT RECH SCIENT [FR]; ECOLE NORMALE SUPERIEURE LYON [FR] ±

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★	<b>Inventor:</b> FUSIL FLORIANE [FR] VERHOEYEN ELS [FR] (+2)	<b>Applicant:</b> INST NAT DE LA SANTE ET DE LA RECH MEDICALE (INSERM) [FR] UNIVERSITÉ CLAUDE BERNARD LYON 1 [FR] (+2)	<b>CPC:</b> <a href="#">A61K2039/505</a> <a href="#">A61K2039/5256</a> <a href="#">A61K39/29</a> (+13)	<b>IPC:</b> A61K39/29 C07K16/10 C12N15/86	<b>Publication info:</b> WO2017005923 (A1) 2017-01-12	<b>Priority date:</b> 2015-07-09
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WO2017005923 (A1)	LENTIVIRAL VECTOR EXPRESSING MEMBRANE...	3
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US2015203572 (A1)	Compositions and Methods Including Re...	5
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US2014302082 (A1)	NUCLEIC ACID CONSTRUCT COMPRISING NUC...	8
CA2851807 (A1)	NUCLEIC ACID CONSTRUCT CONTAINING FUL...	9
US2012088718 (A1)	HCV-DERIVED POLYPEPTIDES AND USES THE...	10
RU2010129429 (A)	HEPATITIS C VIRUS ANTIBODIES	11
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US2009252745 (A1)	Amino acids in the HCV core polypeptl...	13
US2002010445 (A1)	HUMAN MONOCLONAL ANTIBODIES SPECIFIC ...	14
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US6558898 (B1)	Non-A, non-B, non-C, non-D, non-	16
US6051374 (A)	Non-A, non-B, non-C, non-D, non-	17
US2005069805 (A1)	Synthetic hcv envelope proteins and t...	18
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**Inventor:** RAHEL ARVIND [GB]  
OWSIANKA ANIA [GB]  
**Applicant:** MEDICAL RES COUNCIL [GB]  
**CPC:** A61K2039/505  
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A61K39/42 (+7)  
**IPC:** C07K16/10  
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**Publication info:** US2017283484 (A1)  
2017-10-05  
**Priority date:** 2014-09-05

## 2. LENTIVIRAL VECTOR EXPRESSING MEMBRANE-ANCHORED OR SECRETED ANTIBODY

**Inventor:** FUSIL FLORIANE [FR]  
VERHOEYEN ELS [FR]  
(+2)  
**Applicant:** INST NAT DE LA SANTE ET DE LA RECH MEDICALE (INSERM) [FR]  
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**Inventor:** HYDE RODERICK A [US]  
KINDSVOGEL WAYNE R [US]  
**Applicant:** EUVHA LLC [US]  
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1. [nucleic acid, C07K16/109/low](#)  
nucleic acid in the title or abstract AND C07K16/109/low as the Cooperative Patent Classification  
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# تمرین ۱

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چه تعداد پتنت هم خانواده دارد؟

# تمرین ۲

چگونه می توان از بخش **Smart Search** برای یافتن پتنتی با اطلاعات ذیل استفاده نمود؟

- پتنتی در حوزه ی Turbine for sewage aeration
- REGENT J به عنوان مخترع یا مالک اختراع
- انتشار یافته در ۱۹۷۰

# تمرین ۳

Albert Einstein و Leo Szilard دوست و همکار بودند. Einstein به خاطر نظریاتش در حوزه نسبیت (relativity)، فوتوالکتریک (photoelectric) و تئوری کینتیک (kinetic theory) شناخته شده است. Szilard یک فیزیکدان تجربی بود که در حوزه: واکنش های هسته ای (nuclear chain reactions) میکروسکوپ الکترونی (electron microscope) شتاب دهنده های خطی (linear accelerator) و cyclotron کار می کرد. Einstein و Szilard با همکاری یکدیگر روی اختراعی در حوزه ای به کلی متفاوت کار کردند.

حوزه این اختراع چه بود؟

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راه های جستجو  
لیست نتایج  
نمایش اطلاعات  
نظارت بر فایل های جدید با فعال نمودن گزینه هشدار

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- امکان مشاهده نظرات اشخاص ثالث که می توانند بدون احراز هویت در مورد نوآوری اختراع نظر دهند.
- اتصال به منابع اطلاعاتی (Espacenet, Publication Server)
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Quick search

Advanced search

Help

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e.g. EP1883031

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Publication number ⓘ e.g. EP1883031

Application number ⓘ e.g. EP20070010825

Priority number ⓘ e.g. US20030423700

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Date of grant ⓘ e.g. 20070919

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International Patent Classification (IPC) ⓘ e.g. H02M7/537 H03K17/687

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Publication number ⓘ e.g. EP1883031

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Siemens diode 2010

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# Smart search field identifiers (I)

## Field identifiers

The following table lists the field identifiers together with a definition and an example of how to use them.

Field identifier	Description	Examples
in	inventor	in=smith
pa	applicant	pa=siemens
re	representative	re="vande gucht"
op	opponent	op=basf
ti	title	ti="mouse trap"
ap	EP/WO application number	ap=ep99203729
pn	EP/WO publication number	pn=ep1000000
pr	priority number	pr=ep20050104792
fd	filing date	fd=20010526
pd	publication date	pd=20020103
prd	priority date	prd=19780707
ic	international classification	ic=a63b49/08
ia	inventor and applicant	ia=Smith
nm	inventor, applicant, opponent, representative	nm=Sony
txt	title, inventor, applicant, opponent and representative	txt=microscope lens
num	EP/WO application number, EP/WO publication number and priority number	num=ep1000000 or num=wo2007117737

# Smart search field identifiers (II)

## Smart search

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Search term(s)


e.g. hair

ps=Siemens ti=diode pd=2010

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# Smart search

# لیست نتایج

Search term(s) 

in=ganshorn pa=siemens ic=B60M

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Search term(s): (in = ganshorn and pa = siemens) and ic = B60M

### METHOD AND DEVICE FOR DISPLACING AN ARRANGEMENT ALONG A CONTACT WIRE OF AN OVERHEAD LINE CATENARY

	Application No. EP06754931	Publication No. EP1877275	Applicant <b>SIEMENS</b> AKTIENGESELLSCHAFT	IPC <b>B60M</b> 1/28
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### DEVICE FOR FIXING A CONTACT WIRE OF AN OVERHEAD LINE CATENARY

	Application No. EP05825327	Publication No. EP1827894	Applicant <b>SIEMENS</b> AKTIENGESELLSCHAFT	IPC <b>B60M</b> 1/28
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### CONTACT WIRE CLAMP

	Application No. EP00993599	Publication No. EP1240046	Applicant <b>SIEMENS</b> AKTIENGESELLSCHAFT	IPC <b>B60M</b> 1/24
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### CABLE CLAMP, ESPECIALLY A CROSS-SPAN ADJUSTER CLAMP OR BEARER CABLE CLAMP FOR SUPPORTING FRAMEWORKS OF CATENARY SYSTEMS

	Application No. EP99952367	Publication No. EP1105301	Applicant <b>SIEMENS</b> AKTIENGESELLSCHAFT	IPC <b>B60M</b> 1/24 H02G7/08
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### Turning clamp for supporting cable for electrical conductors, especially for railway power supply

	Application No. EP98115923	Publication No. EP0900687	Applicant <b>SIEMENS</b> AKTIENGESELLSCHAFT	IPC <b>B60M</b> 1/24 H02G7/08
---	-------------------------------	------------------------------	--	-------------------------------------

### Catenary wire support

	Application No. EP93117082	Publication No. EP0650863	Applicant <b>SIEMENS</b> AKTIENGESELLSCHAFT	IPC <b>B60M</b> 1/20 <b>B60M</b> 7/00
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Status	No opposition filed within time limit <i>Database last updated on</i>																																																								
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Event history

Citations

Patent family

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News flashes

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Designated contracting states **AT**

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Examination procedure	16.09.2002	Fee for printing paid
Fees paid	<b>Renewal fee</b>	
	17.08.2000	Renewal fee patent year 03
	23.08.2001	Renewal fee patent year 04
	19.08.2002	Renewal fee patent year 05
European patent granted	04.12.2002	
Opposition procedure	05.09.2003	No opposition filed within time limit published on 26.

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Event date: 10.03.1999

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Kind Code of Ref Document: A2

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Designation	Current status
Patent type	EP
Extract date	30.11.2011
Publication number	00900687
Publication of application	10.03.1999
Grant date	04.12.2002
Application no.	98115923
Filing date	24.08.1998
Title	Tragsell-Drehklemme für strom- oder spannungsführende Leitungen, insbesondere bei der Bahnstromversorgung
Renewal fee	13. Jahresgebühr bezahlt bis 31.08.2011
Owner	SIEMENS AKTIENGESELLSCHAFT Wittelsbacherplatz 2 80333 München DE-Germany
Inventor	Ganshorn, Rolf-Dieter Draisstrasse 02 68169 Mannheim DE-Germany
Agent	Leray, Philippe Bayernstrasse 00 87051 Ludwigshafen DE-Germany
IPC classification	B60M-001/24 H02G-007/08
Priorities	DE 19738944 05.09.1997
Published documents	espacenet
Date of last update	11.11.2010

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Date	Register mutation
04.12.2002	Grant with effect for CH/LI
04.12.2002	Published in PIDSJ/+pat- 2002/23
	Agent
	Agent Siemens Schweiz AG Albisriederstrasse 245 8047 Zürich

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Legal status	<b>Event history</b>	22.01.1999	Publication in section I.1 EP Bulletin		published on 10.03.1999 [1999/10]	
<b>Event history</b>		28.08.2000	Renewal fee			
Citations		13.10.2000	Request for examination filed		published on 29.11.2000 [2000/48]	
Patent family		27.10.2000	Definitive list of designations		published on 13.12.2000 [2000/50]	
All documents		27.12.2000	Change - extension states			
Quick help		31.08.2001	Renewal fee			
→ <a href="#">What happens if I click on the "XML" or "ST36" buttons?</a>		04.12.2001	Examination report or reply			
→ <a href="#">Why does one and the same legal event/entry refer to different dates?</a>		07.12.2001	First examination report		published on 23.01.2002 [2002/04]	
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Maintenance news	+	12.04.2002	Communication of intention to grant			
News flashes	+	28.06.2002	Communication of intention to grant			
Related links	+	28.06.2002	Communication of intention to grant a patent			
		02.09.2002	Renewal fee			
		27.09.2002	Communication of intention to grant a patent			
		18.10.2002	(Expected) grant		published on 04.12.2002 [2002/49]	
		10.10.2003	No opposition filed within time limit		published on 26.11.2003 [2003/48]	

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EP0900687
About this file
Legal status
Federated register
Event history
<b>Citations</b>
Patent family
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Type:	Patent literature
Publication No.:	↗ <a href="#">GB301216</a> [A]
Type:	Patent literature
Publication No.:	↗ <a href="#">DE3814491</a> [A]
Type:	Patent literature
Publication No.:	↗ <a href="#">DE29803747U</a> [AD]

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Legal status
Federated register
Event history
Citations
<b>Patent family</b>
All documents

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Type	Patent family member		
	Publication No.	Date	Type
	DE59806503D	16.01.2003	D1
	Priority number	Date	
	DE19738944	05.09.1997	
	DE59806503	24.08.1998	
Type	Equivalent		
	Publication No.	Date	Type
	<a href="#">EP0900687</a> <a href="#">Global dossier</a>	04.12.2002	B1
	EP0900687	05.04.2000	A3
	EP0900687	10.03.1999	A2
	Priority number	Date	
	DE19738944	05.09.1997	
Type	Equivalent		
	Publication No.	Date	Type
	<a href="#">AT228947I</a>	15.12.2002	T
	Priority number	Date	
	DE19738944	05.09.1997	

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03.07.02

Zeichner/Ref./Ref. Anmelde-Nr./Application No./Demande n°/Patent No./Brevet n°:  
GR 97 P 3638 E 98115923.9-2422/

Anmelde-/Appl./Demande/Patent/Inventor/Propriétaire/Breveté:  
SIEMENS AKTIENGESELLSCHAFT

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Auf die Mitteilung gemäss Regel 51 (4) EPÜ vom 24.04.02

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- کنترل هرگونه تغییر در محتوای اطلاعات تا بیش از ۱۰۰۰ پرونده
- ارسال ایمیل اطلاع رسانی به بیش از ۵ مخاطب، در صورت بروز هرگونه تغییر در وضعیت اظهارنامه موردنظر
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  - محتوای پیام های اطلاع رسانی را به دلخواه خود تغییر دهند.
  - لیست اسناد را ارسال یا ذخیره کنند.

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محیطی امن، رایگان و با امکان دسترسی از طریق نام کاربری و رمز عبور



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PROCESS FOR PREPARING [4,6-BIS-DIMETHYL **AMINO**-2-[4-(4-TRIFLUOROMETHYLBENZOYL-**AMINO**)BENZYL]PYRIMIDIN-5-YL]ACETIC **ACID**

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	EP12718262	WO2012156221	...	...

METHOD OF DETECTION OF **AMINO ACID** SEQUENCE AND/OR IDENTIFICATION OF PEPTIDES AND PROTEINS, BY USE OF A NEW DERIVATIZATION REAGENT AND SYNTHESIS OF 5-FORMYL-BENZENE-1,3-DISULPHONIC **ACID** AS DERIVATIZATION REAGENT

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CRYSTALLINE SALTS OF (4S,4A,5,6R,12AS)-4-DIMETHYL **AMINO**-3,10,12,12A-TETRAHYDROXY-7-[(METHOXY(METHYL) **AMINO**)-METHYL]-1,11-DIOXO-1,4,4A,5,5A,6,11,12A-OCTAHYDRO-NAPHTHACENE-2-CARBOXYLIC **ACID** AMIDE AND METHODS OF USING THE SAME

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<input type="radio"/>		08727390	08727390	2010-01-22		

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