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as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

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International application No PCT/EP2010/066572

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B. FIELDS SEARCHED

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

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EPO-Internal, BIOSIS, Sequence Search, EMBASE, WPI Data

С. DOCUMI	CUMENTS CONSIDERED TO BE RELEVANT				
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Х	US 2006/051859 A1 (FU YAN [US] ET AL) 9 March 2006 (2006-03-09) abstract; sequence 12	2,3,5, 8-12,16, 18			
	paragraphs [0024], [0025], [0039], [0043], [0047], [0060], [0069], [0070]				
A	MINCHIOTTI LORENZO ET AL: "Mutations and polymorphisms of the gene of the major human blood protein, serum albumin", HUMAN MUTATION, vol. 29, no. 8, 1 August 2008 (2008-08-01), pages 1007-1016, XP002520020, JOHN WILEY & SONS, INC, US ISSN: 1059-7794, DOI: 10.1002/HUMU.20754 abstract figure 1	1-3,5, 7-12, 16-18			
	-/				

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	"T" 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. "&" document member of the same patent family
Date of the actual completion of the international search 25 March 2011	Date of mailing of the international search report 03/05/2011
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer Montrone, Marco

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International application No
PCT/EP2010/066572

C(Continua	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Α	WO 95/23857 A1 (DELTA BIOTECHNOLOGY LTD [GB]; KERRY WILLIAMS SEAN MARTIN [GB]; GILBERT) 8 September 1995 (1995-09-08) abstract page 6, line 23 - page 7, line 12	1-3,5, 7-12, 16-18
A	SHEFFIELD W P ET AL: "Modulation of clearance of recombinant serum albumin by either glycosylation or truncation.", THROMBOSIS RESEARCH, vol. 99, no. 6, 15 September 2000 (2000-09-15), pages 613-621, XP002616651, ISSN: 0049-3848 abstract	1-3,5, 7-12, 16-18
A	IWAO Y ET AL: "Oxidation of Arg-410 promotes the elimination of human serum albumin", BIOCHIMICA ET BIOPHYSICA ACTA (BBA) - PROTEINS & PROTEOMICS, ELSEVIER, vol. 1764, no. 4, 1 April 2006 (2006-04-01), pages 743-749, XP025123234, ISSN: 1570-9639, DOI: 10.1016/J.BBAPAP.2006.01.011 [retrieved on 2006-04-01] abstract	1-3,5, 7-12, 16-18
A	ISHIMA YU ET AL: "S-Nitrosylation of human variant albumin Liprizzi (R410C) confers potent antibacterial and cytoprotective properties", JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, vol. 320, no. 3, 1 March 2007 (2007-03-01), pages 969-977, XP002510092, AMERICAN SOCIETY FOR PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, US ISSN: 0022-3565, DOI: 10.1124/JPET.106.114959 abstract	1-3,5, 7-12, 16-18
X	WO 2007/021494 A2 (HUMAN GENOME SCIENCES INC [US]; ROSEN CRAIG [US]; BELL ADAM [US]; MOOR) 22 February 2007 (2007-02-22) abstract; sequences 496,519 page 24 - page 25; table 2 page 30, paragraph 79-81 page 39, paragraph 149 - page 40, paragraph 157 page 56, paragraph 274	2-4,6, 8-12,16, 18

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O(OOIIIIIIde	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE UniProt [Online] 24 July 2007 (2007-07-24), "SubName: Full=Uncharacterized protein;", XP002629970, retrieved from EBI accession no. UNIPROT:A6NBZ8 Database accession no. A6NBZ8 abstract; compound	2-4,6,8,
X	WO 2004/011499 A1 (UNIV EDINBURGH [GB]; BEREZENKO STEPHEN [GB]; SADLER PETER JOHN [GB]; S) 5 February 2004 (2004-02-05) abstract; table 1	2-4,6,8,
Y	IWAO ET AL: "Changes of net charge and alpha-helical content affect the pharmacokinetic properties of human serum albumin", BIOCHIMICA ET BIOPHYSICA ACTA (BBA) - PROTEINS & PROTEOMICS, vol. 1774, no. 12, 1 December 2007 (2007-12-01), pages 1582-1590, XP022385158, ELSEVIER, NETHERLANDS ISSN: 1570-9639, DOI: 10.1016/J.BBAPAP.2007.09.001 abstract figures 1,2 table 2 page 1587, column 2, paragraph 2 - page 1589, column 2, paragraph 2	1-12, 16-18
Y	KENANOVA V. ET AL: "HSA Domain III as a protein scaffold with defined serum pharmacokinetics", THE JOURNAL OF NUCLEAR MEDICINE , vol. 50, no. Suppl. 2 15 May 2009 (2009-05-15), XP002629971, Retrieved from the Internet: URL:http://jnumedmtg.snmjournals.org/cgi/content/meeting_abstract/50/2_MeetingAbstracts/1582 [retrieved on 2011-03-22] abstract	1-12, 16-18

C(Continua	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	1
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Α	ANDERSEN JAN T ET AL: "Ligand binding and antigenic properties of a human neonatal Fc receptor with mutation of two unpaired cysteine residues", FEBS JOURNAL, vol. 275, no. 16, August 2008 (2008-08), pages 4097-4110, XP002629972, ISSN: 1742-464X abstract	1-12, 16-18
Υ	CHAUDHURY CHAITY ET AL: "Albumin binding to FcRn: distinct from the FcRn-IgG interaction.", BIOCHEMISTRY, vol. 45, no. 15, 18 April 2006 (2006-04-18), pages 4983-4990, XP002629973, ISSN: 0006-2960 abstract page 4983, column 1, paragraph 2 - column 2, paragraph 1 page 4988, column 2, paragraph 2 - page 4989, paragraph 5	1-12, 16-18
Y	ANDERSEN JAN TERJE ET AL: "The versatile MHC class I-related FcRn protects IgG and albumin from degradation: implications for development of new diagnostics and therapeutics.", DRUG METABOLISM AND PHARMACOKINETICS, vol. 24, no. 4, 10 September 2009 (2009-09-10), pages 318-332, XP002629974, ISSN: 1880-0920 abstract page 318, column 1, paragraph 1 - column 2, paragraph 2 page 320, column 2, paragraph 3 page 321, column 1, paragraph 3 page 323, column 1, paragraph 4 page 326, column 1, paragraph 1 - column 2, paragraph 1	1-12, 16-18

C(Continua	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KRAGH-HANSEN U ET AL: "Effect of genetic variation on the thermal stability of human serum albumin", BIOCHIMICA ET BIOPHYSICA ACTA (BBA) - PROTEINS & PROTEOMICS, vol. 1747, no. 1, 14 February 2005 (2005-02-14), pages 81-88, XP004725430, ELSEVIER, NETHERLANDS ISSN: 1570-9639, DOI: 10.1016/J.BBAPAP.2004.09.025 abstract page 83, column 2, paragraph 2; tables 1,2	2-4,8,9
Υ	OLAFSEN TOVE ET AL: "Tunable pharmacokinetics: modifying the in vivo half-life of antibodies by directed mutagenesis of the Fc fragment", NATURE PROTOCOLS, NATURE PUBLISHING GROUP, GB, vol. 1, no. 4, 1 January 2006 (2006-01-01), page 2048, XP001537674, ISSN: 1750-2799, DOI: DOI:10.1038/NPROT.2006.322 abstract page 2048, column 1, paragraph 1 - page 2049, column 1, paragraph 1	1-12, 16-18
Υ,Ρ	KENANOVA VANIA E ET AL: "Tuning the serum persistence of human serum albumin domain III: diabody fusion proteins", PROTEIN ENGINEERING DESIGN & SELECTION, vol. 23, no. 10, October 2010 (2010-10), pages 789-798, XP002629975, ISSN: 1741-0126 abstract	1-12, 16-18
Υ	ANDERSEN JAN TERJE ET AL: "A receptor-mediated mechanism to support clinical observation of altered albumin variants.", CLINICAL CHEMISTRY, vol. 53, no. 12, December 2007 (2007-12), page 2216, XP002629976, ISSN: 0009-9147 abstract	1-12, 16-18

Category* Citation of document, with indication, where appropriate, of the relevant passages Page 24 CARLSON J ET AL: "ALLOALBUMINEMIA IN SWEDEN STRUCTURAL STUDY AND PHENOTYPIC DISTRIBUTION OF NINE ALBUMIN VARIANTS", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 89, no. 17, 1992, pages 8225-8229, XP002629977, ISSN: 0027-8424 abstract page 8227; table 1 page 8228, column 1, paragraph 4
SWEDEN STRUCTURAL STUDY AND PHENOTYPIC DISTRIBUTION OF NINE ALBUMIN VARIANTS", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA, vol. 89, no. 17, 1992, pages 8225-8229, XP002629977, ISSN: 0027-8424 abstract page 8227; table 1

Information on patent family members

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WO 9523857	A1	08-09-1995	AT AU CA DE DE DK EP ES GB JP JP PT US	2183241 69532603 69532603 749478 0749478 2216007 2301365 3795073 9509581	B2 A A1 D1 T2 T3 A1 T3 A B2 T	15-03-2004 20-11-1997 18-09-1995 08-09-1995 01-04-2004 05-01-2005 28-06-2004 27-12-1996 16-10-2004 04-12-1996 12-07-2006 30-09-1997 30-07-2004 12-10-1999
WO 2007021494	A2	22-02-2007	AU BR CA EC EP JP KR	2006280312 PI0614761 2618476 SP088262 1924596 2009504157 20080071119	A2 A1 A A2 T	22-02-2007 19-05-2009 22-02-2007 30-05-2008 28-05-2008 05-02-2009 01-08-2008
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International application No. PCT/EP2010/066572

INTERNATIONAL SEARCH REPORT

Box No. 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. X Claims Nos.: 13-15 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: see FURTHER INFORMATION sheet PCT/ISA/210
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 No. 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
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 fees, this Authority did not invite payment of additional fees.
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.: 1-12, 16-18
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.:
The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee. The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation. 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: 1-3, 5-12, 16-18(all partially)

A method for preparing a variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof, comprising following steps: a. Providing a nucleic acid encoding a parent albumin having at least 80% sequence identity to SEQ ID NO: 2; b. Modifying the sequence of step a., to encode a variant albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof having one or more substitutions corresponding to the substitutions in SEQ ID NO: 2 selected among:Q417A,C,D,E,F,G,H,I,K,L,M,N,P,R,S,T,V,W,Y c. Introducing the modified sequence of step b., in a suitable host cell; d. Growing the cells in a suitable growth medium under condition leading to expression of the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof; and e. Recovering the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof from the growth medium; wherein the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof, has an altered plasma half-life compared with the parent albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof; Variants of HSA comprising said modification at Q417, conjugates, and pharmaceutical compositions thereof.

2. claims: 1-3, 5-12, 16-18(all partially)

A method for preparing a variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof, comprising following steps: a. Providing a nucleic acid encoding a parent albumin having at least 80% sequence identity to SEQ ID NO: 2; b. Modifying the sequence of step a., to encode a variant albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof having one or more substitutions corresponding to the substitutions in SEQ ID NO: 2 selected among: K500A,C,D,E,F,G,H,I,K,L,M,N,Q,R,S,T,V,W,Y c. Introducing the modified sequence of step b., in a suitable host cell; d. Growing the cells in a suitable growth medium under condition leading to expression of the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof; and e. Recovering the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or

fragment thereof from the growth medium; wherein the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof, has an altered plasma half-life compared with the parent albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof; Variants of HSA comprising said modification at K500, conjugates, and pharmaceutical compositions thereof.

3. claims: 1-12, 16-18(all partially)

A method for preparing a variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof, comprising following steps: a. Providing a nucleic acid encoding a parent albumin having at least 80% sequence identity to SEQ ID NO: 2; b. Modifying the sequence of step a., to encode a variant albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof having one or more substitutions corresponding to the substitutions in SEQ ID NO: 2 selected among: D550A,C,E,F,G,H,I,K,L,M,N,P,Q,R,S,T,V,W,Y c. Introducing the modified sequence of step b., in a suitable host cell; d. Growing the cells in a suitable growth medium under condition leading to expression of the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof; and e. Recovering the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof from the growth medium; wherein the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof, has an altered plasma half-life compared with the parent albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof; Variants of HSA comprising said modification at D550, conjugates, and pharmaceutical compositions thereof.

4. claims: 1-5, 7-12, 16-18(all partially)

A method for preparing a variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof, comprising following steps:
a. Providing a nucleic acid encoding a parent albumin having at least 80% sequence identity to SEQ ID NO: 2;
b. Modifying the sequence of step a., to encode a variant albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof having one or more substitutions corresponding to the substitutions in SEQ ID NO: 2 selected among:
K573A,C,D,E,F,G,H,I,L,M,N,P,Q,R,S,T,V,W,Y
c. Introducing the modified sequence of step b., in a

suitable host cell;
d. Growing the cells in a suitable growth medium under condition leading to expression of the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof; and
e. Recovering the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof from the growth medium; wherein the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof, has an altered plasma half-life compared with the parent albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof;
Variants of HSA comprising said modification at K573, conjugates, and pharmaceutical compositions thereof.

5-30. claims: 1-3, 5-12, 16-18(all partially)

A method for preparing a variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof, comprising following steps: a. Providing a nucleic acid encoding a parent albumin having at least 80% sequence identity to SEQ ID NO: 2; b. Modifying the sequence of step a., to encode a variant albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof having one or more substitutions corresponding to the substitutions in SEQ ID NO: 2 selected among: H440A, A490C, E492A, V493A, D494A, E495A, T496A, P499A, E501A, N503A, A504C, E505A, T506A, H510A, H535A, K536A, P537A, K538A, T540A, K541A, E542A, K574A, Q580A, A581C, A582C, G584A including the further specifically claimed variants thereof c. Introducing the modified sequence of step b., in a suitable host cell; d. Growing the cells in a suitable growth medium under condition leading to expression of the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof; and e. Recovering the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof from the growth medium; wherein the variant of albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof, has an altered plasma half-life compared with the parent albumin, fragments thereof or fusion polypeptide comprising said variant albumin or fragment thereof; Variants of HSA comprising said modification at H440, A490. E492, V493, D494, E495, T496, P499, E501, N503, A504, E505, T506, H510, H535, K536A, P537A, K538, T540, K541, E542, K574, Q580, A581, A582, G584 conjugates, and pharmaceutical compositions thereof.

31-35. claims: 2, 3, 5-12, 16-18(all partially)

A variant of albumin, fragments thereof or fusion polypeptides comprising said variant albumin or a fragment thereof having altered plasma half-life compared with the parent albumin, fragment thereof or fusion polypeptide comprising said parent albumin or fragment thereof, comprising one or more substitutions in positions corresponding to the positions in SEQ ID NO:2 selected among: 464, 575, 577, 578, 579.

Continuation of Box II.2

Claims Nos.: 13-15

Present claims 13 to 15 relate to a compound which has a given desired property or effect, namely a variant of albumin which binding to FcRn is stronger than for the corresponding albumin or fragment. However, the description does not provide support and disclosure in the sense of Article 6 and 5 PCT for any such compound having the said property or effect and there is no common general knowledge of this kind available to the person skilled in the art. This non-compliance with the substantive provisions is to such an extent, that no search was carried for the subject-matter of these claims (PCT Guidelines 9.19 and 9.20).

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.2), should the problems which led to the Article 17(2) declaration be overcome.