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(71) Applicant (for all designated States except US):
OCTAPHARMA AG [CH/CH]; Seidenstraße 2, CH-8853
Lachen (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KAAR, Waltraud**
[AT/AT]; Oberlaaer Str. 235, A-1100 Vienna (AT).
ZÖCHLING, Alfred [AT/AT]; Oberlaaer Str. 235, A-
1100 Vienna (AT). **AHRER, Karin** [AT/AT]; Oberlaaer
Str. 235, A-1100 Vienna (AT).

(74) Agent: **VON KREISLER SELTING WERNER**; Deich-
mannhaus am Dom, Bahnhofsvorplatz 1, 50667 Köln
(DE).

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(54) Title: METHOD FOR INACTIVATION/REMOVAL OF COAGULATION FACTORS BY PRECIPITATION

(57) Abstract: A method for inactivation or removal of coagulation factors FII, FVII, FVIIa, FIX, FIXa, FX, FXI and FXIa in or from protein containing solutions obtained from blood, blood plasma, plasma fractions or by recombinant means wherein the protein containing solution is contacted with an organic acid or its salt while being stirred.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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B. FIELDS SEARCHED

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A61K

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

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 816 201 A1 (CSL BEHRING GMBH [DE]) 8 August 2007 (2007-08-08) example 5	1-15
X	----- GB 906 860 A (KENNETH WILLIAM ERNEST DENSON) 26 September 1962 (1962-09-26) page 2, left-hand column, last paragraph	1,2,5,7, 8,11-15
X	----- EP 0 987 274 A1 (HOECHST MARION ROUSSEL DE GMBH [DE]) 22 March 2000 (2000-03-22) claims 13,18; example 22 ----- -/-	1,5,6

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

☒ See patent family annex.

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NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Loher, Florian

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
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X	Anonymous: "Allgemeine Hinweise", 1 May 2010 (2010-05-01), XP002681510, Retrieved from the Internet: URL:http://www.ganzimmun.de/item_doc/lv/allgemeine_hinweise.pdf [retrieved on 2012-08-07] page 5, paragraphs 1,2 -----	1,5, 13-15

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1816201	A1	08-08-2007	AU 2007214011 A1 16-08-2007
		BR PI0707513 A2 10-05-2011	
		CA 2636671 A1 16-08-2007	
		CN 101379189 A 04-03-2009	
		EP 1816201 A1 08-08-2007	
		EP 1984503 A1 29-10-2008	
		EP 2233576 A1 29-09-2010	
		JP 2009525724 A 16-07-2009	
		KR 20080109750 A 17-12-2008	
		US 2009298760 A1 03-12-2009	
		WO 2007090584 A1 16-08-2007	

GB 906860	A	26-09-1962	NONE

EP 0987274	A1	22-03-2000	AR 027814 A1 16-04-2003
		AT 460424 T 15-03-2010	
		AU 760580 B2 15-05-2003	
		AU 5972399 A 03-04-2000	
		BR 9913742 A 05-06-2001	
		CA 2344048 A1 23-03-2000	
		CN 1318069 A 17-10-2001	
		CZ 20010914 A3 13-06-2001	
		EP 0987274 A1 22-03-2000	
		EP 1114061 A1 11-07-2001	
		HK 1040253 A1 02-09-2005	
		HU 0103851 A2 29-04-2002	
		ID 28494 A 31-05-2001	
		IL 141415 A 05-09-2006	
		JP 4537581 B2 01-09-2010	
		JP 2002524571 A 06-08-2002	
		NO 20011293 A 04-05-2001	
		NZ 510509 A 27-09-2002	
		PL 346781 A1 25-02-2002	
		RU 2223967 C2 20-02-2004	
		TR 200100766 T2 22-10-2001	
		TW 576839 B 21-02-2004	
		US 6287794 B1 11-09-2001	
		WO 0015658 A1 23-03-2000	
		ZA 200101861 A 22-10-2001	
