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(71) Applicant (for all designated States except US): **WAKE FOREST UNIVERSITY HEALTH SCIENCES** [US/US]; One Technology Place, 200 East First Street, Suite 101, Winston-salem, NC 27101 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **VAN DYKE, Mark E.** [US/US]; 1003 Greenhurst Road, Winston-salem, NC 27104 (US).

(74) Agent: **MYERS BIGEL SIBLEY & SAJOVEC, P.A.;** P.O. Box 37428, Raleigh, NC 27627 (US).

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(54) Title: COATINGS AND BIOMEDICAL IMPLANTS FORMED FROM KERATIN BIOMATERIALS

(57) Abstract: Methods are provided to produce optimal fractionations of charged keratins that have superior biomedical activity. Also provided are medical implants coated with these keratin preparations. Further provided are methods of treating blood coagulation in a patient in need thereof.



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/04193

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61F 13/00( 2006.01)

USPC: 424/443

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)

U.S. : 424/443

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

Internet: Google search for terms in the claims

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

STN, WEST: terms: keratin, blood, coagulation, ion exchange, anion exchangeperacetic acid, thioglycoic acid

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0076599 A1 (SILLER et al.) 22 April 2004 (22.04.04), paragraphs [0020], [0101], [0108], [0109], [0020], [0108-109], [0139].	1-22
X	US 6,783,546 B2 (ZUCHERMAN et al.) 31 August 2004 (31.08.04), columns 9 and 13	23-25
X	US 2006/0025597 A1 (ROBARGE et al.) 2 february 2006 (02.02.06), paragraphs [0004] and [0206].	26-28

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

☐ 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 application or patent published on or after the international filing date

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"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

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
Facsimile No. (571) 273-3201

Authorized officer

/Jon P Weber/ for AGNES B. ROOKE

Telephone No. 571-272-1600