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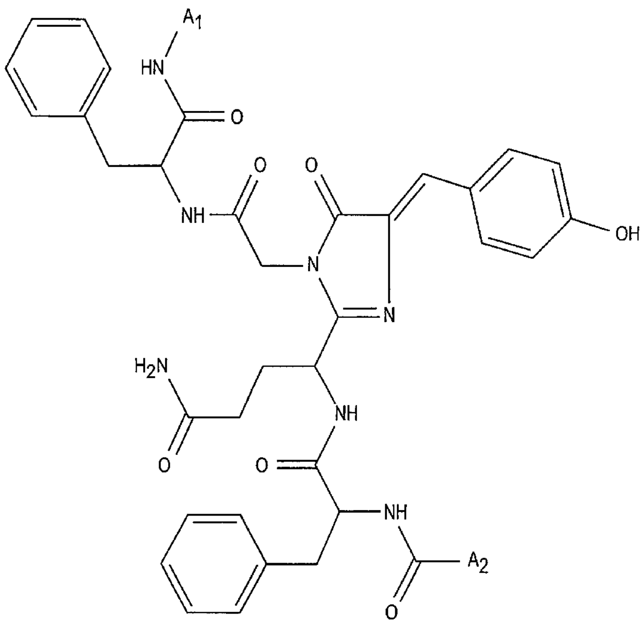
[Continued on next page]

(54) Title: NOVEL FLUORESCENT PROTEINS CONTAINING FQYGF IN THE CHROMOPHORE



(57) Abstract: The present invention is directed to novel spontaneously fluorescent proteins having a unique chromophore formed from the amino acid sequence $FR_1R_2R_3$ F where R_1 is Q or S; R_2 is Y, W, F or H; and R_3 is G, A or S. The invention also encompasses the expression of nucleic acids that encode the proteins of the invention in a wide variety of engineered host cells, and the isolation of engineered proteins. In other embodiments, the invention comprises methods of use, generally including tagging a molecule or cell with the proteins of the invention by either chemical means or recombinant techniques.

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K

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 practical, search terms used)

EPO-Internal, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HEIM R ET AL: "ENGINEERING GREEN FLUORESCENT PROTEIN FOR IMPROVED BRIGHTNESS, LONGER WAVELENGTHS AND FLUROESCENCE RESONANCE ENERGY TRANSFER" CURRENT BIOLOGY, CURRENT SCIENCE,, GB, vol. 6, no. 2, 1 February 1996 (1996-02-01), pages 178-182, XP000676582 ISSN: 0960-9822 the whole document ---	

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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Name and mailing address of the ISA	Authorized officer
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication,where appropriate, of the relevant passages	Relevant to claim No.
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Information on patent family members

International Application No
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