01-16-2001 Form PTO-1595 U.S. Department of Commerce 6-93 Patent and Trademark Office 101582637 To the Honorable Commissioner of Patents and or copy thereof. Name and address of receiving party(ies): 1. Name of conveying party(ies): Name: The General Hospital Corporation (a) Thomas J. Gardella Henry M. Kronenberg (b) John T. Potts, Jr. Street Address: 55 Fruit Street (c) (d) Harald Jüppner City: Boston State: MA Zip Code: 02114 Additional name(s) of conveying party(ies) attached? □ yes 🛮 no Country: USA 3. Nature of Conveyance: Additional name(s) & address(es) attached? □ yes

no □ Merger Assignment
 Assignment
 ■ □ Change of Name □ Security Agreement □ Other _ Execution Dates: (a) 09/19/00 (b) 09/21/00 (c) 09/28/00 (d) 09/20/00 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is B. Patent No(s). A. Patent Application No(s). 09/672,020 Additional numbers attached? □ yes ⊠ no 6. Total number of applications and patents involved 5. Name and address of party to whom correspondence concerning document should be mailed: 7. Total fee (37 C.F.R. § 3.41)......\$ 40.00 Name: Sterne, Kessler, Goldstein & Fox P.L.L.C. Internal Address: c/o Steven R. Ludwig, Esq. □ Authorized to be charged to Deposit Account 19-0036 8. Deposit Account Number: 1100 New York Ave., N.W. Street Address: Suite 600 City: Washington State: D.C. Zip Code: 20005-3934 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Steven R. Ludwig Total number pages including cover sheet, attachments and document Name of Person Signing Registration No. 36,203 OMB NO. 0651-0011 (exp.4/94) Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments

Washington, D.C. 20231

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In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventor(s): (1) Thomas J. Gardella, (2) Henry M. Kronenberg, (3) John T. Potts, Jr. and (4) Harald Jüppner, the undersigned inventor(s) hereby sell(s) and assign(s) to The General
Hospital Corporation (the Assignee) their entire right, title and interest, including the right to sue for past
infringement and to collect for all past, present and future damages:
check applicable box(es) ✓ for the United States of America (as defined in 35 U.S.C. § 100), ✓ and throughout the world,
(a) in the invention(s) known as Polypeptide Derivatives of Parathyroid Hormone (PTH) for which application(s) for patent in the United States of America has (have) been executed by the undersigned on (1) 9-19-6 (2)
(3) (4) (also
known as United States Application No. (to be assigned), filed (to be filed), in any and all applications thereon, in any and all Letters Patent(s) therefor, and
(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;
all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.
The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the
Assignee may deem necessary of expects The undersigned inventor(s) agree(s) to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any continuing (continuation, or patent enforcement action (judicial or otherwise) related to the application(s) thereof and to cooperate with the divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the divisional or every way possible in obtaining evidence and going forward with such interference or patent.
enforcement action. The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest the undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest and undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest that he/she has not executed, and will not execute, any agreement in conflict therewith. The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest that he/she has full right to convey the entire interest that he/she has not executed, and will not execute, any agreement in conflict therewith.
The undersigned inventor(s) hereby grant(s) Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 31,944; Samuel L. Fox, Esquire, Registration No. 30,353; David K.S. Cornwell, Esquire, Registration No. 31,944;

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Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

Date: 9-19-00	Signature of Inventor:	Thomas J. Gardella
Date:	Signature of Inventor:	Henry M. Kronenberg
Date:	Signature of Inventor:	John T. Potts, Jr.
Date:	Signature of Inventor: _	Harald Jüppner

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In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration
paid to each of the undersigned inventor(s): (1) Thomas J. Gardella, (2) Henry M. Kronenberg, (3) John T.
Potts, Jr. and (4) Harald Jüppner, the undersigned inventor(s) hereby sell(s) and assign(s) to The General
Hospital Corporation (the Assignee) their entire right, title and interest, including the right to sue for past
infringement and to collect for all past, present and future damages:

check applicable box(es)

✓ for the United States of America (as defined in 35 U.S.C. § 100),

✓ and throughout the world,

SRC d24/10 Ry No 34, 263

- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventor(s) agree(s) to execute all papers necessary in connection with the application(s) and any continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

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The undersigned inventor(s) hereby represent(s) that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

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Page 1 of 2

PATENT REEL: 011416 FRAME: 0989 Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michael A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; and Linda E. Alcorn, Esquire, Registration No. 39,588; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, Washington, D.C. 20005-3934, power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

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Date: Signature of Inventor: New	y Kinely		
Henry M. Ki	fonenberg		
John T. Potts	s, Jr.		
Date: Signature of Inventor: Harald Jüpp	nor		

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 - (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

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Date:	Signature of Inventor: Henry M. Kronenberg
Date: \(\frac{465}{66} \)	Signature of Inventor:
Date.	John T. Potts, Jr.
Date:	Signature of Inventor:

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for which application(s) for pat	tent in the United Stat	es of A	America has	(have) been e	xecuted by
the undersigned on(1)			(2)		•
(3)	(4)	9/20	ko		(also
known as United States Applica	ation No. (to be assi	gned)	, filed(to be filed)), in any
and all applications thereon, in	any and all Letters Pa	atent(s	therefor,	and	-

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- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and
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Date:	9/20/00	Signature of Inventor:	Harald Jupper

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RECORDED: 01/08/2001