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Substitute Form PTO-1595 Attorney Docket No.: 15609-086001 Client's Ref. No.: 2005P00727 US

PATENTS ONLY

Commissioner for Patents; Please record the attached original docume	nt(s) or copy(les).	
Name of conveying party(les):	2. Name and address of receiving party(ies):	
1- Wilhelm Zwerger, 2- Holger Herrmann,	SAP AG	
3-Thomas Friedrich and 4- Ami Heitner	Dietmar-Hopp-Allee 16	
Additional name(s) attached? ☐ Yes ☑ No	69190 Walldorf Germany	
3. Nature of conveyance:	Johnany	
⊠ Assignment ⊡ Merger		
☐ Security Agreement		
☐ Change of Name ☐ Other:		
Execution Date: 1- January 4, 2006; 2- January 4,	Additional names/addresses attached? ☐ Yes ☑ No	
2006; 3- January 3, 2006; 4- March 23, 2006		
Application number(s) or patent number(s):		
If this document is being filed with a new application, the execution date of the application is:		
A. Patent Application No(s).:	B: Patent No(s).:	
11/321,352 filed December 29, 2005		
Additional numbers attached? □ Yes ☑ No		
Name/address of party to whom correspondence concerning document should be mailed:	6. Total number of applications/patents involved: 1	
	7. T-1-1 ((07.050.00 44), \$40	
PTO Customer Number 32864 Fish & Richardson P.C.	7. Total fee (37 CFR §3.41); \$40	
P.O. Box 1022	☐ Enclosed ☑ Authorized to charge Deposit Account.	
Minneapolis, MN 55440-1022	8. Deposit Account No.: 06-1050	
	Please apply any additional charges, or any credits, to our	
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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.		
J. Richard Soderberg	(C) whole	
Reg. No. 43,352	1/6/06_	
Name of Person SignIng Signature	Date /	
Total number of pages including coversheet, attachments and document: 6 pages		

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CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on the date indicated below.

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Elizabeth A. Bauer
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Attorney Docket No.: 15609-086001 / 2005P00727 US Page 1 of 2

ASSIGNMENT

For valuable consideration, we, Wilhelm Zwerger, Hölger Hertmann, Thomas Friedrich and Ami Heitner, hereby assign to SAP AG, a German Corporation, having a place of business at Dietmar-Hopp-Allee 16, 69190 Walldorf, Germany, and its successors, and assigns (collectively, "the ASSIGNEE") our entire right, title and interest throughout the world in the Inventions and improvements that are the subject of a patent document entitled

Generating Information for Use in Performing Physical Operations,

which is found in

December 29, 2005 U.S. patent application filed on 11/321,352 (X) under Application No. __

We authorize and request the attorneys of record or the attorney filing the application to insert into this assignment the filing date and serial number of the application when known.

This assignment includes the foregoing patent application or patent, all legal equivalents in any country, and all patents issuing from such legal equivalents; all patents, utility models, and design registrations granted by any jurisdiction for any of said inventions and improvements; and the right to claim priority based on the filing date of the foregoing patent application or patent under the imemational Convention for the Protection of Industrial Property, the Petent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. We authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, and design registrations and like rights of exclusion and for inventors certificates for said inventions and improvements.

We hereby state and agree that no essignment, sate, agreement, or encumbrance has been or will be made or entered into that would conflict with this assignment.

We further agree for ourselves and our respective heirs, legal representatives, and assigns to provide to the Assignee promptly upon its request and at its expense all pertinent facts and documents relating to any of said inventions and improvements or said patents and regal equivalents as may be known and accessible to us and to testify as to the same in any interference, litigation, or proceeding relating thereto; and we agree promptly to perform such lawful acts and to sign such further applications, assignments, statements, and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Inventor's Signature

Witnessed by:

Inventor's Signature

Witnessed by:

4.01.2006

PATENT REEL: 017449 FRAME: 0098 04/06/2006 13:20 FAX 612 288 9696 FISH & RICHARDSON PC PA ☑ 004 ☑4-JAN-2006 18:59 STRATEGIC RESEARCH & DEV +49 6227 763696 \$.04/06

> Attorney Decket No.: 15509-086001 / 2005P00727 US Page 2 of 2

Inventor's Signature Thomas Friedrich Witnessed by: Celune (Stuntial) Signature CELINE COURTIAL Print Name	<u>03_01,_2co6</u> Date
Inventor's Signature Ami Heitner	
Witnessed by: Signature	Date

15609-086001 Assignment doc

Print Name

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Attorney Docket No.: 15609-085001 / 2005P00727 U\$ Page 1 of 2

ASSIGNMENT

For valuable consideration, we, Wilhelm Zwerger, Holger Hormann, Thomas Friedrich and Ami Heitner, hereby assign to SAP AG, a German Corporation, having a place of business at Dielmar-Hopp-Allee 16, 69190 Walldorf, Germany, and its successors, and assigns (collectively, "the ASSIGNEE") our entire right, title and interest throughout the world in the inventions and improvements that are the subject of a patent document entitled

Generating Information for Use in Per	forming Physical Operations,
which is found in	
U.S. patent application filed on December 29, 200 [X] under Application No11/321,352	05 - -
We authorize and request the attorneys of record or the attorney filing the serial number of the application when known.	e application to insert into this assignment the filin. Jate and
This assignment includes the foregoing patent application or patent, all I such legal equivalents; all patents, utility models, and design registration improvements; and the right to claim priority based on the filing date of the Convention for the Protection of Industrial Property, the Patent Coopera treaties of like purposes. We authorize the Assignee to apply in all countend design registrations and like rights of exclusion and for inventors' ce	is granted by any jurisdiction for any of said inventions and he foregoing patent application or patent under the Internationa tion Treaty, the European Patent Convention, and all other tries in our names or in its own name for patents, utility models
We hereby state and agree that no assignment, sale, agreement, or end conflict with this assignment.	umbrance has been or will be made or entered into that would
We further agree for ourselves and our respective heirs, legal represent request and at its expense all pertinent facts and documents relating to legal equivalents as may be known and accessible to us and to testify a relating thereto; and we agree promptly to perform such lawful acts and other lawful documents as the Assignee may reasonably request to effe	any of said inventions and improvements or said patents and s to the same in any interference, litigation, or proceeding to sign such further applications, assignments, statements, and
Inventor's Signature	
Wilhelm Zwerger	
Witnessed by. Signature	Date
Print Name	-
Inventor's Signature Holger Herrmann	
Witnessed by Signature	Date
Print Name	-

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Inventor's Signat	Thomas Friedrich	
Witnessed by:	Signature	Oate
	Print Name	
Inventor's Signa	ture Ami Heitner	23 - March - 2006

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Witnessed by:

PATENT REEL: 017449 FRAME: 0101