MRD 9-23-99

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U.S. Department of Commerce Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

[1. Name of convey	/ing party(ies):		2. Name and address of receiving party(ies)		
	Athanassios Dimas, Isaac Lottati, Peter Bernard, James P. Collins and James C. Geiger			Name: Vorcat, Inc.		
				**		
			□ Vas	Internal Address:		
	Additional name(s)		∐ Yes			
	party(ies) attached?			Street Address: 1370 Piccard Drive Suite 210		
	3. Nature of Conveyance:			Rockville, Maryland 20850		
	x Assignment Merger			City: Rockville		
	Security Agreer	nent Char	nge of Name	State: Maryland Zip: 20850		
	Other			Country: U.S.A.		
	Execution Date(s):	6/23/99		Additional name(s) & Yes address(es) attached? X No		
	4. Application number(s) or patent number(s): 09/401,184					
	If this document is being filed together with a new application, the Execution date(s) of the new application is (are): 9/22 and 9/23/99					
	A. Patent Application No.(s):			B. Patent No.(s):		
				Additional numbers attached? Yes X No		
	Name and address of party to whom correspond concerning document should be mailed:			6. Total number of applications and 1 patents involved:		
/01/1999 MPEOPLE FC:581	Name: DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP			7. Total fee (37 C.F.R 3.41) \$ \$40.00		
	0000059					
, 0:361	inte rnavyngijas s:	Atty. Dkt.: K8132.0	001/P001	x Enclosed		
	40/44/n _{in} Fric Oliver			Authorized to be charged to deposit account		
	Street Address:	2101 L Street NV	٧	x Credit any overpayment or		
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	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.					
	Eric Oliver 9/23/99					
	Signature Date					
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	Total number of pages including cover sheet, attachments, and document: 9					

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ASSIGNMENT BY INVENTORS

THIS ASSIGNMENT, made this 23 day of June, 1999 b

Athanassios Dimas, 4816 Bel Pre Road, Rockville, Maryland 20853; Isaac Lottati, 1180

Milbern Drive, Potomac, Maryland 20854; Peter Bernard, 701 Milestone Drive, Silver Spring

Maryland 20904; James P. Collins, 5250 Stone Bridge Way, Sykesville, Maryland 21784; and

James C. Geiger, 5805 Edson Lane, #204, Rockville, Maryland 20852 (hereinafter referred to

as Assignors);

WHEREAS, Assignors have invented certain new and useful improvements it

APPARATUS FOR AND METHOD OF SIMULATING TURBULENCE, set forth in at

application for Letters Patent of the United States, filed Concurrently Herewith; and

WHEREAS, Vorcat, Inc., a corporation organized under and pursuant to the law:

of Delaware having its principal place of business at 1370 Piccard Drive, Suite 210, Rockville

Maryland 20850 (hereinafter referred to as Assignee), is desirous of acquiring the entire right

title and interest in and to said inventions and said Application for Letters Patent of the

United States, and in and to any Letters Patent of the United States to be obtained therefor

and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good

and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold,

assigned, transferred and set over, and by these presents do sell, assign, transfer and set over,

unto Assignce, its successors, legal representatives and assigns, the entire right, title and

interest in and to the above-mentioned inventions and application for Letters Patent, and in

and to any and all direct and indirect non-provisional applications, divisions, continuations and

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continuations-in-part of said application, and any and all Letters Patent in the United State

and all foreign countries which may be granted therefor and thereon, and reissues

reexaminations and extensions of said Letters Patent, and all rights under the International

Convention for the Protection of Industrial Property, the same to be held and enjoyed by

Assignee, for its own use and benefit and the use and benefit of its successors, lega-

representatives and assigns, to the full end of the term or terms for which Letters Patent may

be granted and/or extended, as fully and entirely as the same would have been held and

enjoyed by Assignors, had this sale and assignment not been made.

AND for the same consideration, Assignors hereby represent and warrant to

Assignee, its successors, legal representatives and assigns, that, at the time of execution and

delivery of these presents, except for any rights, titles and/or interests that have arisen to

Assignee under law or that have already been transferred to Assignee, Assignors are the sole

and lawful owner of the entire right, title and interest in and to the said inventions and

application for Letters Patent above-mentioned, and that the same are unencumbered and that

Assignors have good and full right and lawful authority to sell and convey the same in the

manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with

Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and

documents, take all lawful oaths and do all acts necessary or required to be done for the

procurement, maintenance, enforcement and defense of any Letters Patent and applications

for Letters Patent for said inventions, without charge to Assignee, its successors, legal

representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal

representatives and assigns, shall advise: that any proceeding in connection with said

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inventions, or said application for Letters Patent, or any proceeding in connection with an

Letters Patent or applications for Letters Patent for said inventions in any country, includin

but not limited to interference proceedings, is lawful and desirable; or, that any non

provisional application, division, continuation or continuation-in-part of any application fo

Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to b

obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to

issue said Letters Patent of the United States to Assignce, as Assignce of said inventions and

the Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors

legal representatives and assigns.

AND Assignors hereby grant the following individuals the power to insert on this

Assignment any further identification which 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:

Dickstein Shapiro Morin and Oshinsky LLP

Gary M. Hoffman, 26,411; Thomas J. D'Amico, 28,371; Donald A. Gregory.

28,954; James W. Brady, Jr., 32,115; Jon D. Grossman, 32,699; Mark J. Thronson, 33,082;

Laurence E. Fisher, 37,131; John R. Fuisz, 37,327; Brian A. Lemm, 43,748; Gianni Minutoli,

41,198; Eric Oliver, 35,307; William E. Powell, III, 39,803; James M. Silbermann, 40,413.

AND Assignors acknowledge an obligation of assignment of this invention to

Assignee at the time the invention was made.

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PATENT REEL: 010279 FRAME: 0748 Date: (12399 Athanassios Dimas

United States of America
State of Manyland)ss.: 030-66-1828

County of Montgornary)ss.: 030-66-1828

On this Z3Vd day of June ,1999, before m personally came Athanassios Dimas , to me known to be the individua described in and who executed the foregoing instrument, and acknowledged execution Notary Public

PATRICIA M. LYNCH NOTARY PUBLIC STATE OF MARYLAND My Commission Expires February 9, 2003

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	StM
Date: 6/23/99	Isaac Lottati
United States of America)	
State of Mary and)ss.:	
County of Han Farming)	
On this 23 rd day of	Jul , 1999 , before me
personally came Isaac Lottati	, to me known to be the
individual described in and who executed th	e foregoing instrument, and acknowledged
execution of the same.	Julia German
	JULIA GUZMAN NOTARY PUBLIC STATE OF MARYLAND My Commission Expires November 6, 1999

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	Peter Bernard
Date: June 23, 1999	TOTAL POSPILLA
United States of America) State of Manyland)ss.: County of Montgomen)	•
On this 23 rd day of	tune, 1995, before me
personally came Peter Bernard	, to me known to be the
individual described in and who executed the	foregoing instrument, and acknowledged
execution of the same.	Motary Public
	MOHAMMAD TASLEEM NOTARY PUBLIC STATE OF MARYLAND
	My Commission Expires August 10, 2002

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United States of America

State of Marriand)ss.:

County of Mondgomery

On this 23rd day of two , 1299 , before me personally came James P. Collins , to me known to be the individual described in and who executed the foregoing instrument, and acknowledged execution of the same.

Mondammad Tasleem

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NOTARY PUBLIC STATE OF MARYLAND My Commission Expires August 10, 2002

	and X-
Date: 6/23/99	James C. Geiger
United States of America	
State of Maryland)ss.:	
County of Man tayonery	
On this 23rd day of	Juny, 1799, before me
personally came James C. Geiger	, to me known to be the
individual described in and who executed the	ne foregoing instrument, and acknowledged
execution of the same.	Julea Human Notary Public
	JULIA GUZMAN NOTARY PUBLIC STATE OF MARYLAND My Commission Expires November 6, 1999

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** TOTAL PAGE.13 **

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RECORDED: 09/23/1999

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