

## PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Gunter B.L. Beelen</td><td>04/17/2007</td></tr><tr><td>Hindrick F. Bulthuis</td><td>04/17/2007</td></tr></tbody></table>	Name	Execution Date	Gunter B.L. Beelen	04/17/2007	Hindrick F. Bulthuis	04/17/2007					
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RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Gemfire Corporation</td></tr><tr><td>Street Address:</td><td>1220 Page Avenue</td></tr><tr><td>City:</td><td>Fremont</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>94538</td></tr></table>	Name:	Gemfire Corporation	Street Address:	1220 Page Avenue	City:	Fremont	State/Country:	CALIFORNIA	Postal Code:	94538	
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
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ATTORNEY DOCKET NUMBER:	GEMF 2065-2/WSW										
NAME OF SUBMITTER:	Warren S. Wolfeld										
Total Attachments: 2 source=assign#page1.tif source=assign#page2.tif											

OP \$40.00 11737275

PATENT

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REEL: 019182 FRAME: 0986

GEMF 2065-2

**JOINT TO CORPORATE  
ASSIGNMENT**

WHEREAS, the undersigned,

(1) Gunter B.L. Beelen  
Leenhaagstraat 49  
B-3440 Zoutleuw  
Belgium

(2) Hindrick F. Bulthuis  
13B Torphichenstreet  
Edinburgh EH3 8NX  
United Kingdom

hereinafter termed "Inventors", have invented certain new and useful improvements in

**ARRAYED WAVEGUIDE GRATING WITH REDUCED CHANNEL  
PASSBAND ASYMMETRY**

and have filed a provisional application for a United States patent disclosing and identifying the above invention on 25 April 2006 as Application No. 60/746,007, and have filed a non-provisional application for a United States patent disclosing and identifying the above invention on 19 April 2007 as Application No. 11/737,275, OR are filing such an application herewith, and have executed an oath or declaration of inventorship for such non-provisional application on:

(1) the 17 day of April, 2007;  
(2) the 17 day of April, 2007;

(hereinafter termed "applications"); and

WHEREAS, Gemfire Corporation, a California corporation, having a place of business at 1220 Page Avenue, Fremont, CA 94538, USA (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said applications and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered by said Inventor (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby jointly and severally sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said applications and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-

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part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.


3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, jointly and severally, the inventors' respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that said inventors have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the date written below.

  
\_\_\_\_\_  
Gunter B.L. Beelen

Date: 17 April 2007

  
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Hindrick R. Bulthuis

Date: 17 04 2007