

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Norio SHIROKOSHI</td> <td>08/26/2005</td> </tr> <tr> <td>Naomi SHIRASAWA</td> <td>08/29/2005</td> </tr> </tbody> </table>		Name	Execution Date	Norio SHIROKOSHI	08/26/2005	Naomi SHIRASAWA	08/29/2005
Name	Execution Date						
Norio SHIROKOSHI	08/26/2005						
Naomi SHIRASAWA	08/29/2005						
RECEIVING PARTY DATA							
Name:	HARMONIC AD, INC.						
Street Address:	4034, Oaza Toyoshina, Toyoshina-machi, Minamiazumi-gun						
City:	Nagano-ken						
State/Country:	JAPAN						
Postal Code:	399-8205						
PROPERTY NUMBERS Total: 1							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11222314</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11222314		
Property Type	Number						
Application Number:	11222314						
CORRESPONDENCE DATA							
Fax Number:	(269)381-5465						
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone:	269/381-1156						
Email:	docket@flynnthiel.com						
Correspondent Name:	Flynn, Thiel, Boutell & Tanis, P.C.						
Address Line 1:	2026 Rambling Road						
Address Line 4:	Kalamazoo, MICHIGAN 49008-1631						
ATTORNEY DOCKET NUMBER:	5725.P0015US						
NAME OF SUBMITTER:	Donald J. Wallace						
Total Attachments: 1 source=5725.P0015US Assignment#page1.tif							

CH \$40.00 11222314

ASSIGNMENT

United States (Sole or Joint)
(Excluding Foreign Rights)

WHEREAS, I/We, Norio Shirokoshi and Naomi Shirasawa

residing both at c/o HARMONIC AD, INC., 4034, Oaza Toyoshina, Toyoshina-machi,
Minamiazumi-gun, Nagano-ken, 399-8205 Japan

has/have invented certain new and useful improvements in

BRAKE-EQUIPPED RETRACTING MECHANISM FOR RETRACTABLE MEMBER

for which an application for United States Letters Patent was executed by me/us.

WHEREAS, HARMONIC AD, INC.

having a place of business at 4034, Oaza Toyoshina, Toyoshina-machi, Minamiazumi-gun,
Nagano-ken, 399-8205 Japan

hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in
and to said invention and in and to any Letters Patent that may be granted therefor, in the
United States and its territorial possessions.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) and other valuable
considerations, the receipt whereof is hereby acknowledged, I/we have sold, assigned and
transferred, and by these presents do sell, assign, transfer and confirm in and to said Assignee
my/our full and exclusive right to the said invention in the United States and its territorial
possessions and my/our entire right, title and interest in and to said application and any and all
Letters Patent which may be granted therefor in the United States and its territorial
possessions and in and to any and all divisions, reissues, continuations and extensions thereof.

I/We hereby authorize and request the Patent Office Officials in the United States to issue
any and all of said Letters Patent, when granted, to said Assignee for the sole use and behoof
of the said Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/we have hereunto set my/our hand(s).

Witnessed by:

Inventor(s):

Date:

Norio Shirokoshi
Norio Shirokoshi

Aug-26-05

Naomi Shirasawa
Naomi Shirasawa

Aug-29-05