

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent of: Aldana et al.  
U.S. Patent No.: 8,416,862 Attorney Docket No.: 50095-0050IP1  
Issue Date: April 9, 2013  
Appl. Serial No.: 11/237,341  
Filing Date: September 28, 2005  
Title: EFFICIENT FEEDBACK OF CHANNEL INFORMATION IN A  
CLOSED LOOP BEAMFORMING WIRELESS COMMUNICA-  
TION SYSTEM

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**PETITION FOR *INTER PARTES* REVIEW OF UNITED STATES PATENT  
NO. 8,416,862 PURSUANT TO 35 U.S.C. §§ 311–319, 37 C.F.R. § 42**

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## EXHIBITS

- EX1001 U.S. Pat. No. 8,416,862 to Aldana et al. (“the ’862 patent”)
- EX1002 Prosecution History of the ’862 patent (Serial No. 11/237,341)
- EX1003 Declaration of Dr. Jonathan Wells
- EX1004 U.S. Pat. No. 7,236,748 to Li et al. (“Li-748”)
- EX1005 U.S. Pub. No. 2008/0108310 to Tong et al. (“Tong”)
- EX1006 U.S. Pat. No. 7,312,750 to Mao et al. (“Mao”)
- EX1007 U.S. Pub. No. 2006/0092054 to Li et al. (“Li-054”)
- EX1008 Yang et al., Reducing the Computations of the Singular Value Decomposition Array Given by Brent and Luk, SIAM J. MATRIX ANAL. APPL., Vol. 12, No. 4, pp. 713-725, Oct. 1991 (“Yang”)
- EX1009 U.S. Pat. No. 7,710,925 to Poon (“Poon”)
- EX1010 U.S. Provisional Application Serial No. 60/673,451 (“’451 provisional”)
- EX1011 U.S. Provisional Application Serial No. 60/698,686 (“’686 provisional”)
- EX1012 U.S. Provisional Application Serial No. 60/614,621 (“’621 Provisional”)

- EX1013 U.S. Provisional Application Serial No. 60/619,461 (“461 Provisional”)
- EX1014 U.S. Patent Application Serial No. 11/168,793 (“793 application”)
- EX1015 Plaintiff Bell Northern Research, LLC’s Patent Rule 3-1 and 3-2 Disclosure of Asserted Claims and Infringement Contentions Against the Huawei Defendants in *Bell Northern Research, LLC, v. Huawei Device (Dongguan) Co., Ltd., Huawei Device (Shenzhen) Co., Ltd., and Huawei Device USA, Inc.* (Case No. 3:18-cv-1784) (S.D.Cal.)
- EX1016 Defendants’ Invalidity Contentions in *Bell Northern Research, LLC, v. Huawei Device (Dongguan) Co., Ltd., Huawei Device (Shenzhen) Co., Ltd., and Huawei Device USA, Inc.* (Case No. 3:18-cv-1784) (S.D.Cal.)
- EX1017 Defendants’ Joint Opening Claim Construction Brief in *Bell Northern Research, LLC, v. Huawei Device (Dongguan) Co., Ltd., Huawei Device (Shenzhen) Co., Ltd., and Huawei Device USA, Inc.* (Case No. 3:18-cv-1784) (S.D.Cal.)
- EX1018 Plaintiff’s Opening Claim Construction Brief in *Bell Northern Research, LLC, v. Huawei Device (Dongguan) Co., Ltd., Huawei Device (Shenzhen) Co., Ltd., and Huawei Device USA, Inc.* (Case No. 3:18-cv-1784) (S.D.Cal.)
- EX1019 Defendants’ Memorandum of Points and Authorities in Support of Their Joint Motion for Summary Judgment on Indefiniteness in *Bell Northern Research, LLC, v. Huawei Device (Dongguan) Co., Ltd.,*

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