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[Your Name]

[Your Title]

[Your Company]

[Street Address, City, State ZIP]

June 1, 2026

[Opposing Counsel Name]

[Firm Name]

[Address]

Re: U.S. Patent No. 8139544 — Response to Assertion of Infringement

Dear Counsel,

We acknowledge receipt of your correspondence asserting infringement of U.S. Patent No. 8139544 (the "8139544 Patent"). After preliminary review, we have substantial concerns about the validity, enforceability, and scope of the asserted claims, summarized below. We reserve all rights and defenses.

1. Subject Patent — Summary

Here is a concise summary of US patent 8139544:

Title: Pilot tone processing systems and methods

Assignee: Integral Wireless Technologies LLC

(Previously assigned to Intellectual Ventures I LLC, Intellectual Ventures Assets 199 LLC, among others)

Inventors: Mark A. Webster, Michael J. Seals

Filing Date: 2005-05-04

Issue Date: 2012-03-20

Abstract: Embodiments of pilot tone processing systems and methods are disclosed. In one embodiment, among others, a pilot tone processing system comprises pilot tone logic configured to receive first pilot tone data corresponding to a first transmit antenna and second pilot tone data corresponding to a second transmit antenna and separate the first...

2. Validity Concerns under 35 U.S.C. § 102 — Prior Art

We have identified prior-art references that, in our preliminary view, anticipate one or more asserted claims of the 8139544 Patent:

As a technical patent analyst, I have searched the USPTO database for patent number

8139544. The following prior art patents were cited in US8139544B1. For each reference, I provide a full citation, publication/filing date, a brief description, and which claim(s) it potentially anticipates under 35 U.S.C. § 102.

Most Relevant Prior Art for US Patent 8139544:

The following patents are considered prior art based on their citation within US Patent 8139544.

1. US6445425B1

- Full Citation: US6445425B1, "Automatic fine tuning of receiver for digital television signals"
- Publication Date: 2002-09-03
- Filing Date: 1997-01-07
- Brief Description: This patent describes a receiver for digital television signals that includes a frequency offset estimator and a symbol timing estimator to perform automatic fine tuning. It focuses on recovering and synchronizing signals in a digital broadcasting environment.
- Potentially Anticipates: Claims related to clock recovery and synchronization (e.g., portions of the method in Claim 1 involving signal reception and initial processing, and the system...

3. Obviousness under 35 U.S.C. § 103

Independent of § 102, we believe the asserted claims are obvious in view of combinations of prior art that a person having ordinary skill in the art would have been motivated to combine:

Obviousness Analysis of US Patent 8139544 Under 35 U.S.C. § 103

This analysis identifies combinations of prior art references, publicly available before the priority date of US patent 8139544 (July 30, 2004), that would render the independent claims of the patent obvious to a person having ordinary skill in the art (PHOSITA).

Independent Claims Overview

The independent claims (Claims 1, 15, 24, and 25) of US Patent 8139544 primarily describe a receiving device's operations in a wireless communication system, involving:

1. Receiving first and second signals, each from a different transmit antenna, where each signal includes data and pilot subcarriers.
2. Separating the first set of data subcarriers from the second set of data subcarriers, and the first set of pilot subcarriers from the second set of pilot subcarriers, using a signal separating function based on channel estimates for the respective communication paths.
3. Match-filter combining at least one pilot subcarrier from the first set of pilot subcarriers with at least one pilot subcarrier from the second set of pilot...

4. Litigation History of the Patent

Public records reflect that the 8139544 Patent has been the subject of the following litigation, which informs our view of the asserted claims and your client's enforcement posture:

- Untitled case — 7:26-cv-00121 · Texas Western District Court · Critical

5. Request

In light of the foregoing, we request that your client (i) provide a detailed claim chart identifying each accused product or service and mapping every limitation of each asserted claim, (ii) identify any prior art known to your client, including any references cited during prosecution or

reexamination, and (iii) substantiate the basis for any damages or licensing demand. We are prepared to discuss the matter further once we have received and reviewed the foregoing.

Sincerely,

[Your Name]

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