

#### Determining Reasonable Royalty Damages: Fundamentals, Methodologies, and Key Issues Explored





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#### <u>"Calculating Reasonable Royalty Without</u> <u>Guideline License Agreements</u>

#### **Program Agenda**

- Calculating reasonable royalty without guideline license agreements is more difficult but possible
- Comparable profit margin method (analytical method)
- Differential income method (with and without the infringing patent(s)-in-suit)
- Profit split methods
- Reasonable royalty based on research and development expenditures and cost savings and other benefits of the patent(s)-in-suit
- Based on facts and circumstances of each case

#### **Overview of Guideline License Agreements**

- Courts prefer guideline license agreements when available
- Courts have increasingly taken a more narrow interpretation of comparability to patent(s)-in-suit
- Account for differences between the patent(s)-in-suit and the patents in the guideline license agreements
- Courts have ruled both ways on use of settlement agreements
- Courts have allowed use of acquisition agreements
- Depends of facts and circumstances
- May be difficult to use license information from third-party license databases and industry due to difficulty with comparability

# **Comparable Profit Margin Method (Analytical Method)**

- The royalty calculated under this method is based on the infringer's own internal profit projections for the infringing item at the time the infringement began
- The analytical method is based on the premise that any rate of return in excess of a normal rate of return can be attributed to the patent
- This method takes the profits of the infringer, subtracts the infringer's normal profit, and awards some portion of the remainder to the patent owner
- Depends on facts and circumstances of the case



# Comparable Profit Margin Method (Analytical Method)

- Difficult to find proper benchmark
- May be difficult to use for complex and multi-featured products
- Analytical method discussed in these cases:
  - **TMW** Manufacturing Company v. Dura Corporation
  - Lucent Technologies, Inc. v. Gateway, Inc.
  - Energy Transportation Group, Inc. v. Sonic Innovations Inc.
  - Carnegie Mellon University v. Marvell Technology Group, Ltd.
  - U WesternGeco LLC v. Ion Geophysical Corp.
  - □ Numatics Inc. v. Balluff Inc.
  - □ Metaswitch Networks Ltd. V. Genbank U.S. LLC
  - □ Canrig Drilling Ltd. V. Trinidad Drilling LP

# Differential Income Method (With and Without the Infringing Patent(s)-In-Suit)

- The analyst uses a discounted cash flow analysis comparing the profitability of a product with and without the patent(s)-in-suit
- The difference between these two analyses, the differential income, indicates the damages amount
- The differential income is then used to estimate a reasonable royalty
- May be based on (1) plaintiff's profit margins with and without the patent(s)-in-suit as discussed above or (2) plaintiff's profit margin and defendant's profit margin

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#### **Profit Split Methods**

- Evolving area
- Forced to use in situations in which there is no guideline license agreements
- High *Daubert* risk for the damages experts
- Nash Bargaining Solution mixed bag with courts
- Rubenstein-Muthoo Model of Bargaining mixed bag with courts
- Footprint methodology developed by Aaron Fahrenkrog of Robins Kaplan – not ruled on by the courts yet



### **Nash Bargaining Solution Model**

- Theoretical construct developed by a mathematician known as John Nash
- The royalty rate should be an even split of the infringer's profits between the patent owner and infringer if the parties have an equal bargaining position
- The equal split may be adjusted if the relative bargaining position of the parties is not equal
- Nash Bargaining Solution model was discussed in these cases:
  - □ VirnetX, Inc. v. Cisco
  - □ Oracale v. Google
  - □ Sentius v. Microsoft
  - Suffolk Technology LLC v. AOL Inc. and Google Inc.

### **Nash Bargaining Solution Model**

- Nash Bargaining Solution model was discussed in these cases:
  - □ Mformation Technologies, Inv. v. RIM
  - Gen-Probe, Inc. v. Becton Dickinson & Company
  - Sentius v. Microsoft
  - **G** Robocast, Inc. v. Microsoft



### **Rubenstein-Muthoo Model of Bargaining**

- The Rubenstein-Muthoo model provides a framework for analyzing profit sharing in an economic negotiation
- This model is based on relative contributions and economic negotiation that can be applied, given appropriate circumstances, and tied to the specific facts of the case
- Based on discount rates/cost of capital of reaching a negotiated agreement
- There are no assumptions of equal negotiating strength
- The lower discount rates enjoy greater bargaining power
- The Rubenstein-Muthoo model was allowed in *Content Guard Holdings v. Amazon* and excluded in *Omega Patents v. CalAmp*

### **Footprint Methodology Model**

- The footprint methodology uses three steps:
  - 1) identifying alternatives to the claimed invention
  - 2) quantifying the additional technical benefits achieved by the invention compared to the alternatives; and
  - 3) translating the invention's additional technical benefits to the resulting additional profit versus a non-infringing alternative
- The model looks at revenue and costs from either the patentee's perspective or the infringer's perspective and can represent either of the following two options:
  - 1) the patentee's difference in revenues and costs in the actual with infringement and hypothetical (without infringement) scenarios; or
  - 2) the infringer's revenues and costs in the actual and hypothetical scenarios

#### Reasonable Royalty Based on Research and Development Costs and Savings

- Reasonable royalty based on research and development expenditures and cost savings and other benefits of the patent(s)-in-suit
- Relevant factor that needs to be considered
- This issue has been discussed in several cases:
  *1) 3M v. GDC*
  - 2) AstraZeneca AB vs. Apotex Corp.
  - 3) Powell v. Home Depot U.S.A., Inc.
  - 4) TracBeam LLC v. AT&T Inc.