

STACY A. FRIEDMAN

13380 Streamside Court Lake Oswego, OR 97035
(503) 764-5614 stacy@olympiagaming.com

SUMMARY

Creative technology product consultant with over 25 years' experience in product design, development, and IP strategy across several industry sectors, including enterprise software, mobile and online gaming, and casino gambling. Harvard degree in computer science, *magna cum laude*. Key product design resource for several small technology companies leading to over \$500M in total M&A activity.

Named inventor on over 30 U.S. Patents. Managing an IP portfolio of several dozen assets including patents and trademarks. *Pro se* and counsel-assisted patent prosecution including initial specification/claims drafting, office action responses, and appeal brief drafting. Successfully negotiated several IP transactions.

Subject matter expert consulting and expert witness testimony in over 50 disputes or litigations in US and internationally (Canada, UK, Australia, Costa Rica). Matters include patent infringement, trade secret misappropriation, USPTO proceedings (IPR, CBM, PGR, *ex parte* reexamination), breach of contract, criminal proceedings, and pre-litigation analysis. Over 80 written expert reports or declarations. More than 25 appearances at deposition, hearing or trial, including appearances in U.S. district courts, U.S. state courts, and patent courts in UK and Canada.

Expert analysis tasks included: patent acquisition advice, software source code analysis, review of specialty hardware (regulated gaming equipment), game mathematics analysis, technical systems analysis, prior art search/analysis, regulatory compliance analysis, patent claim construction, patent validity and infringement, trade secret analysis, trade secret reverse engineering, gaming operations data, analysis of other experts' opinions.

EXPERT CONSULTANT EXPERIENCE

Patent infringement, wagering systems and methods

Client: counsel for defendant. Analyses: claim construction, validity. 2022-ongoing.

Patent infringement, casino management systems

Client: counsel for defendant. 2022-ongoing.

Patent infringement, casino management systems

Client: counsel for plaintiff. Analyses: infringement, practicing product, source code. 2022-ongoing.

Patent infringement, networked gaming systems

Client: counsel for plaintiff. Analyses: infringement, source code. 2022-ongoing.

Acquisition consultation, networked gaming patents

Client: patent acquisition/monetization firm. Analyses: infringement claim charts, validity in view of same. 2022.

Deceptive business practices, networked gaming technology

Client: counsel for plaintiff. Analyses: contracts, documentary evidence, financial data. 2022-ongoing.

Fortunet v. Playbook Publishing, misappropriation of trade secrets, proprietary wagering methods

Client: Hartwell Thalacker for plaintiff. Analysis: comparison of both parties' wagering methods. Testimony: trial. 2022-ongoing.

Epic Tech LLC v. Pen-Tech LLC, patent infringement, networked gaming systems/methods

Client: Fisher Broyles for defendant. Analyses: claim construction, validity, infringement. Testimony: declaration. 2021-ongoing.

Zenergy Systems, LLC v. Everi Payments, Inc., breach of contract, casino charitable donation systems

Client: Pisanelli Bice for defendant. Analyses: contracts, documentary evidence, prior art, source code. Testimony: deposition. 2021-ongoing.

Pre-litigation analysis, networked gaming technology

Client: counsel for potential defendant. Analyses: validity, infringement. 2021.

Skillz Platform, Inc. v AviaGames, Inc, patent infringement and IPR, networked gaming systems/methods

Client: Perkins Coie for defendant/IPR petitioner AviaGames. Analyses: claim construction, validity, infringement, source code. Testimony: declaration. 2021-ongoing.

Interactive Communications Int'l, Inc. v. Blackhawk Network, Inc., PGR, lottery system

Client: Cooley for patent owner. Analyses: claim construction, validity. Testimony: declaration, deposition. Disposition: patent claims found unpatentable. 2021-2022.

Playtika Ltd. v. NEXRF Corp., IPRs, networked gaming systems/methods

Client: Finnegan, Henderson for petitioner. Analysis: validity. Testimony: declarations, deposition. Disposition: Terminated after ineligibility appeals waived. 2021-2022.

MQ Gaming v. LEGO Systems, patent infringement and IPR, networked gaming systems/methods

Client: Finnegan, Henderson for plaintiff/patent owner MQ Gaming. Analyses: validity, infringement, source code. Disposition: confidential settlement. 2020-2021.

GREE v. Supercell Oy, patent infringement, networked gaming systems/methods (multiple matters)

Client: Fenwick & West for defendant. Analyses: claim construction, validity, infringement, source code. Testimony: declarations, depositions, trials. Dispositions: Jury verdicts for plaintiff, then confidential settlement. 2019-2021.

INAG, Inc. v. Richar, Inc., patent infringement, casino gaming equipment

Client: Fisher Broyles for defendant. Analyses: claim construction, validity, infringement. Testimony: deposition. 2020-ongoing.

Epic Tech LLC v. Fusion Skill, Inc. et al., patent infringement, networked electronic gaming machines

Client: Dunlap Codding for defendant Texas Wiz. Analyses: validity, infringement, source code. Testimony: declarations, deposition. Disposition: Asserted patents found ineligible under *Alice*. 2020-2022.

Patent infringement, electronic gaming machines

Client: counsel for defendant. Analysis: validity. 2020, on hold.

Bot M8 LLC v. Sony Corporation of America, patent infringement, networked gaming system

Client: Kramer Levin Naftalis & Frankel for plaintiff. Analyses: validity, infringement, source code. Testimony: declarations, deposition. Disposition: Asserted patent found invalid. 2019-2020.

Savvy Dog Systems LLC v. Pennsylvania Coin LLC, patent infringement, electronic gaming machines

Client: Morgan, Lewis & Bockius for defendant. Analyses: claim construction, validity, source code. Testimony: declaration, deposition. 2019-ongoing.

Tipping Point Gaming v. Caesars Entertainment, trade secret misappropriation, casino system

Client: Greenberg Traurig for defendant. Analyses: trade secret, prior art. Disposition: claims dismissed with prejudice. 2019.

MGM National Harbor v. Markel Insurance, damage assessment, electronic gaming machines

Client: DeCaro Doran for defendant. Analyses: gaming machine evaluation after water damage, financial damages. Disposition: satisfactory settlement. 2019-2022.

Aristocrat v. Ainsworth, trade secret misappropriation, gaming machine technology

Client: Gilbert + Tobin for plaintiff. Analyses: forensic par sheet examination, mathematical analysis. Disposition: confidential settlement. 2019-2020.

Treehouse Avatar v. Valve Corp., patent infringement, networked gaming system

Client: plaintiff. Analyses: validity, infringement, source code. Testimony: deposition. Disposition: case dismissed. 2018-2021.

FigureFun LLC v. LEGO Systems, patent infringement and IPR, electronic gaming machines

Client: plaintiff/patent owner. Analyses: claim construction, validity. Testimony: declarations. Disposition: Final written decision. 2018-2019.

Bookman v. Resorts World Casino, Genting New York and Int'l Game Technology (IGT), breach of contract & negligence, slot machine abnormality/withheld jackpot

Client: Alan Ripka for plaintiff. Analysis: forensic gaming machine investigation. Testimony: expert affidavit. 2018.

IPR, networked gaming system

Client: counsel for patent owner. Analysis: validity. Removed from case. 2017-2018.

Aristocrat Technologies v. High 5 Games, IPR, slot machine method

Client: Covington & Burling for petitioner. Analysis: validity. Testimony: declaration, deposition. Disposition: all claims unpatentable. 2017-2019.

Video Gaming Technologies (VGT) v. Castle Hill Gaming, misappropriation of intellectual property, Class II gaming machines

Client: Covington & Burling for plaintiff. Analyses: Class II gaming machine functionality, trade secret, trade dress, source code. Testimony: declarations, deposition. Disposition: public settlement of \$3M. 2017-2019.

Kentucky Horse Racing Commission, et al. v Family Trust Foundation of Kentucky, compliance investigation, electronic gaming machines

Client: Stoll Keenon Ogden for petitioner Keeneland Association. Analyses: behavior of historical horse racing (HHR) machines in view of regulations and state court opinions. 2015-2018.

Int'l Game Technology (IGT) v. Aristocrat Technologies, patent infringement, gaming machines

Client: Covington & Burling for defendant. Analysis: validity. Testimony: declarations. Disposition: confidential settlement. 2015-2016.

AmTote International v. Kentucky Downs, misappropriation of intellectual property, networked gaming system

Client: Gilbert's LLP for plaintiffs AmTote and PariMAX. Analysis: historical horse racing (HHR) machines, system architecture, pari-mutuel mathematics, trade secret. Disposition: confidential settlement. 2015-2018.

IGT v. AmTote International, patent infringement (pre-litigation), networked gaming system

Client: Gilbert's LLP for defendant. Analysis: validity. Disposition: litigation averted due to my analysis. 2015.

International Internet Technologies, LLC v. Sweepstakes Patent Company, LLC, CBM review, networked gaming system

Client: Schneider Rothman for patent owner. Analyses: validity, infringement. Testimony: deposition. Disposition: patent found invalid during CBM review. 2015-2016.

Abnormality analysis, networked gaming machines

Client: counsel for defendant. Analyses: log file, source code. Disposition: confidential settlement. 2015-2016.

MEI-GSR Holdings, LLC d/b/a Grand Sierra Resort v. Peppermill Casinos, Inc., misappropriation of trade secrets, slot machine par settings

Client: Robison, Belaustegui, Sharp & Low for defendant. Analyses: trade secret, reverse engineering, damages. Testimony: trial. Disposition: jury verdict for defendant. 2014-2016.

MGT Gaming v. Aruze, patent infringement, slot machine system

Client: Watson Rounds for defendant. Analyses: claim construction, validity. Testimony: declaration. Disposition: confidential settlement. 2014-2015.

SHFL Entertainment v. GTECH, patent infringement, online gaming system

Client: McCarter & English for defendant. Analysis: claim construction, validity. Disposition: confidential settlement. 2014.

Stephenson v. Worldwinner, IPR, networked tournament system

Client: Merchant & Gould for patent owner. Analyses: claim construction, validity. Testimony: declaration, deposition. Disposition: patent invalid for anticipation. 2013-2015.

Agincourt Gaming v. Zynga, patent infringement, network gaming system

Client: Quinn Emanuel Urquhart & Sullivan for defendant. Analysis: validity. Disposition: confidential settlement. 2013-2014.

eLot v. GTECH, patent infringement, networked lottery system

Client: Finnegan, Henderson, Farabow, Garrett & Dunner for defendant. Analysis: validity. Disposition: confidential settlement. 2013.

Big Daddy Games v. Reel Spin Studios, copyright infringement, gaming machines

Client: Michael Best for defendant. Analysis: graphical assets, source code. Testimony: declaration, deposition. Disposition: confidential settlement. 2012.

Seneca Nation of Indians v. State of New York, regulatory dispute, video lottery terminals

Client: Kanji & Katzen / Harter Secrest & Emery for plaintiff. Analyses: hardware functionality, network protocol, gameplay, regulatory. Testimony: sworn witness statement, hearing. Disposition: public settlement of over \$600M dispute. 2012-2013.

Safe Gaming System Inc. v. Atlantic Lottery Corp., patent infringement, networked gaming system

Client: Borden Ladner Gervais for defendant. Analyses: claim construction, validity, infringement. Testimony: trial in Federal Court of Canada. Disposition: dismissal / judgment for defendant. 2012-2018.

eLot v. Atlantic Lottery Corporation, patent infringement, Internet lottery system

Client: Borden Ladner Gervais for defendant. Analyses: claim construction, validity. Disposition: favorable settlement shortly after my report was submitted. 2012-2014.

Fortunet v. Playbook Publishing, misappropriation of trade secrets, proprietary wagering methods

Client: Watson Rounds for plaintiff. Analysis: comparison of both parties' wagering methods. Testimony: trial. Disposition: jury verdict partly in favor of plaintiff. 2011-2013.

McKee v. Isle of Capri Casinos, breach of contract & consumer fraud, slot machine abnormality/withheld jackpot

Client: Donnelly Nelson Depolo Murray for plaintiff. Analysis: slot machine forensic report. My engagement was terminated when I disputed counsel's technical interpretations. Disposition: summary dismissal. 2011-2012.

Legal iGaming / Zynga v. Int'l Game Technology (IGT), patent interference, networked gaming system

Client: Morrison Foerster for senior party defendant. Analysis: claim construction, validity. 2011.

Gaming patent review (pre-litigation/confidential), networked gaming machine methods

Client: Counsel for potential plaintiff. Analyses: prior art research, validity, infringement. 2011.

Lottotron v. Allgames Casino, patent infringement, remote wagering system

Client: Stadheim Gear for plaintiff. Analyses: damages for defaulting defendants. Testimony: declaration, hearing. Disposition: plaintiff awarded damages over \$14M. 2011.

WMS Gaming v. Bally Technologies, patent infringement, slot machine technologies

Client: Quinn Emanuel Urquhart & Sullivan for defendant. Analysis: validity. Disposition: confidential settlement. 2011.

Lottotron v. EH New Ventures, patent infringement of remote wagering system

Client: Stadheim Gear for plaintiff. Analyses: infringement. Testimony: declarations, deposition, trial. Disposition: jury verdict for defendant. 2010-2012.

Compliance investigation, charitable bingo machines

Client: Thunderbird Casino, Costa Rica. Analyses: investigation of gameplay on electronic bingo machines, comparison to regulatory language. Written report submitted to national legislator. 2010-2011.

Compliance investigation, charitable bingo machines

Client: Alabama Attorney General. Analyses: investigation of of gameplay on multiple manufacturers' electronic bingo machines in view of Alabama Supreme Court ruling, pre-litigation technical support. Disposition: project terminated due to Governor's intervention. 2010.

State of California v. Wilkins, theft, casino loyalty club points

Client: Public Defender, Humboldt County, CA for defendant. Analyses: evaluation of casino accounting data, damages calculation. Disposition: case settled for the amount I calculated. 2009-2010.

Dottie Janousek v. Canyon Casino, breach of contract, slot machine abnormality/withheld jackpot

Client: Helmer McElyea for plaintiff. Analysis of slot machine forensic report. Disposition: based on my analysis, plaintiff received satisfactory settlement. 2009.

Golden Route v. Ardent Gaming, breach of contract, casino accounting system

Client: John Peter Lee for defendant. Analyses: contract language, software specification, system data. Disposition: confidential settlement. 2009.

Cranway v. Playtech (United Kingdom), patent infringement, online gaming system

Client: Herbert Smith for plaintiff. Analyses: infringement, validity. Testimony: declaration, trial in High Court in London. Disposition: patent found invalid. 2008-2009.

International Gamco v. Multimedia Games, patent infringement, video lottery system

Client: Luce, Forward, Hamilton & Scripps for defendant. Analyses: infringement, validity. Testimony: declarations, deposition. Disposition: summary judgment for defendant. 2006-2010.

Aristocrat Technologies v. Multimedia Games, patent infringement, video lottery machines

Client: Luce, Forward, Hamilton & Scripps for defendant. Analyses: infringement, validity. Testimony: declarations, deposition. Disposition: settled in favor of defendant shortly after my deposition was taken. 2006-2008.

HomeBingo v. Multimedia Games, patent infringement, electronic bingo system

Client: Fish & Richardson for defendant. Analyses: claim construction, infringement, validity. Testimony: declaration. Disposition: settled in defendant's favor after claim construction order. 2006-2007.

State of Mississippi v. (unknown defendant), felony cheating at gambling

Client: Mississippi Gaming Commission. Analysis: statistical evidence for cheating vs. probability of random outcomes. Disposition: indictment handed down by grand jury. 2005.

PUBLICATIONS AND MEDIA INTERVIEWS

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| April 2014 | Web radio interview for Casino Enterprise Management podcast "Casino Talk with Brooke Dunn" regarding new casino game concepts. |
| January 2011 | Video interview for CBS News show "60 Minutes" regarding video slot machine gameplay. Published on the CBS News website. |
| March 2010 | Written article in Casino Journal: "Gaming's Greatest Hits: 6 Ideas that Changed the Industry" |
| March 2007 | Radio interview for National Public Radio show "Justice Talking" regarding slot machine design and mathematics. |

WORK AND BOARD EXPERIENCE

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| 2001-present | OLYMPIAN GAMING, LLC , Lake Oswego, OR
Gaming industry consulting, intellectual property consulting and game development
President <ul style="list-style-type: none">• Developed profitable consulting practice around casino gameplay development and analysis, including custom software simulation and analysis• Designed slot game models and new game features for land-based and online gaming vendors. Client list includes WagerWorks (IGT), Chartwell Technology, Parlay Entertainment, Diamond Game, Phantom EFX, and DEQ Systems.• Designed and/or analyzed keno, bingo, lottery, blackjack, craps, roulette, poker, video poker, and many novel gaming propositions• Social game design and virtual economy design for casual mobile or web games• Advised clients in IP strategy. including patent clearance and potential design-arounds |
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