Imagine you are a corporate juggernaut, a titan of industry, a business behemoth, the figurative 800-pound gorilla—the prospective monopolist, perhaps. For the most part, you dominate your industry in terms of market share, sales, and reputation. Your success in business has enabled you to spend sizeable amounts of money in research and development (R&D), and as a result you have an extensive portfolio of patents and other intellectual property.

Business is good, but you are not without faults. New startups constantly force you to adapt and enhance your products and services, costing you enormous financial resources. And because you are larger, it usually takes you longer to respond and pivot to counter smaller competitors. New rivals present a very real danger to your continued dominance. Your
patents do not perfectly “cover” their inventions, but it may be plausible to convince a court that your rivals are infringing on at least some aspects. Although patent litigation is expensive, you have a large war chest, and you know that small companies often crumble under the weight of a patent infringement suit. But if you sue competitors, that might harm your pristine reputation with consumers, business partners, and regulators. And it might result in counter-suit.

Your lawyers tell you that in recent decades, a new model of patent litigation has emerged. Instead of suing infringers in their own names, “practicing” companies are now outsourcing patent litigation to non-practicing patent assertion entities (PAEs, a name used by the Federal Trade Commission). Outsourcing patent litigation to PAEs is often cheaper, more lucrative, and very effective, but most importantly, PAEs allow practicing companies to secretly manipulate and hinder rivals via patent litigation.

While outsourcing patent litigation to PAEs may be beneficial to a hypothetical large business, experts and policy-makers are concerned about the negative effects such arrangements may have on competition and consumers. Commentators ar-

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5. See infra Part IIA (describing the effects of patent litigation on small businesses).

6. See infra note 58; see also Michelle Cramer, Being Sued by Big Business Competition, GREATFX PRINTING (Oct. 27, 2015), http://buzz.greatfxprinting.com/being-sued-by-big-business-competition.htm (describing one small business entrepreneur’s tactic of using online public relations to “get the public on his side and put the heat on [his larger competitor]”).

7. Companies that “practice” their patents are those which actually create products and services based on their patented inventions. See Kailash Choudhary & Priyanka Rastogi, Non Practicing Entities (NPEs) and Their Impacts, LEXOLOGY (Sept. 29, 2012), http://www.lexology.com/library/detail.aspx?g=2be351e0-c393-4637-9c38-306ff7713557.


10. See Mark A. Lemley & A. Douglas Melamed, Missing the Forest for the Trolls, 113 COLUM. L. REV. 2117, 2129–70 (2013) (examining the economics of patent assertion by trolls and practicing entities); cf. eBay Inc. v.
gue that PAE patent litigation stifles investment and innovation. For this reason in particular, policy-makers are wary of PAEs, especially now that PAEs bring over half of all patent lawsuits. News stories and research also confirm that the hypothetical scenario explained above is increasingly a reality.

“Privateering” is a very concerning and increasingly popular PAE arrangement. In privateering, PAEs are directed—or “privateered”—by “sponsor” companies and used to harass those companies’ rivals and raise rivals’ costs. In its most primitive form, privateering entails patent litigation brought by a PAE against tens to hundreds of targeted companies—usually rivals of the sponsor. When successful, privateering directly benefits the PAE through settlement or damages awards. But this reward is insignificant in comparison to the indirect benefits that inure to the sponsor as a result of reduced competition.

In recent decades, scholars have criticized PAEs. They have focused on addressing “patent trolls”—an older and more-
publicized type of PAE—but have not addressed patent priva-
teer. And those who have addressed patent privateering
have thus far focused only on the legal implications of the ac-
quision and aggregation of patents by a PAE, but not spon-
sored litigation against targeted rivals.17 Some scholars assert
that the best way to address PAE patent litigation is to reform
patent law instead of reforming or employing other areas of
law, such as antitrust law.18 However, Congress has been slow
to act in addressing defects in patent law,19 so the develop-
of other solutions may be necessary to address patent priva-
teer.

Commentators are optimistic that antitrust law can pro-
vide answers.20 Among the existing commentary, though, schol-
ars have primarily focused on the effects of patent privateering
on business at-large; they have not focused on how small busi-
nesses—those most likely to be targets of patent privateering21—are affected. Thus, the existing commentary overlooks
the most pressing patent privateering concerns.

This Note analyzes how current U.S. antitrust law could be
applied to address patent privateering against small business-
es. Part I explores the history, logistics, and effects of PAE pri-
ivateering and reviews relevant patent and antitrust laws. Part
II analyzes attempts to apply antitrust law to patent privateer-
ing against large companies and considers similar applications
to patent privateering against small businesses. Part III rec-
ommends Congress, regulators, or the courts adopt a rebuttable

Fighting the Smartphone Patent War with RAND-Encumbered Patents, 27

17. See Mark S. Popofsky & Michael D. Laufert, Antitrust Attacks on Pa-
tent Assertion Entities, 79 ANTITRUST L.J. 445 (2014); Justin R. Orr, Note, Pa-
tent Aggregation: Models, Harms, and the Limited Role of Antitrust, 28

18. See Lemley & Melamed, supra note 10, at 2171–72; Robert A. Mat-
thews, Jr., Antitrust Claims Against Patent Assertion Entities, 5 ANNOTATED
PATENT DIGEST § 34:54.50 (2016); Orr, supra note 17.

19. For example, a bill directed specifically at patent trolls failed to make
it out of committee in 2014. Joe Mullin, How the Patent Trolls Won in Con-

Swings, in RECENT DEVELOPMENTS IN ANTITRUST LAW 93 (2013); Matthew J.
Reilly, Trending Issues in Antitrust Law and Practice Tips on Avoiding and
Responding to Antitrust Investigations, in RECENT DEVELOPMENTS IN ANTI-
TRUST LAW, supra, at 79; Orr, supra note 17.

21. See Colleen V. Chien, Startups and Patent Trolls, 17 STAN. TECH. L.
presumption of antitrust liability and explains why other proposals would inadequately address patent privateering. This solution will counteract the practical difficulties faced by small businesses when sued by patent privateers and the related anticompetitive market effects.

I. PRIVATEERING, PATENTS, AND ANTITRUST LAW

This Part surveys patent privateering: its history, structure, strategy, effects, and the applicable law. It begins by reviewing relevant U.S. patent law in Section A. Section B then offers an explanation of how patent privateering is conducted, along with a discussion of why it is popular and its effects. Lastly, Section C briefly explains relevant antitrust law.

A. UNITED STATES PATENT LAW

Patent holders have the right to exclude all others from “making, using, or selling in the United States the invention claimed by the patent for twenty years.”22 Most scholars agree that patent rights benefit society at large by incentivizing R&D and invention.23 Patents do this by enabling patent-holding inventors to recoup costs and profit from invention, encouraging the sharing of inventions and licensing to others, and reducing wasteful, duplicative R&D.24 In this way, patent grants are crucial elements in a competitive system because they encourage competition between inventors to create and innovate.25 In essence, patents form an essential part of the competitive economic landscape in the United States.

Patent rights are enforced through litigation,26 and in the past decade, patent infringement suits have increased dramati-
There are a variety of reasons for this increase, one of which is product complexity. Advanced tech products rely on thousands of patents at once; for example, a typical smartphone may involve as many as 250,000 different patents. It is therefore easy for a smartphone manufacturer to infringe on at least one patent, perhaps inadvertently. Additionally, companies are constantly developing new patents based on past patented inventions, leading to overlapping patent rights and increasing the likelihood of infringement. This may also be a byproduct of over-issuance of patents.

Some competitors intend to use patent rights competitively and patent litigation as a competitive tactic. This form of predatory patent litigation is most common in industries built primarily on intellectual property capital (e.g., high-tech industries), where the innovation is incremental and patents overlap and are interchangeable. Firms engaging in predatory litiga-


30. See generally Michael D. Frakes & Melissa F. Wasserman, Does the U.S. Patent and Trademark Office Grant Too Many Bad Patents?: Evidence from a Quasi-Experiment, 67 STAN. L. REV. 613, 676 (2015) (“Our results suggest that the inability of the PTO to finally rid itself of an application biases it toward granting patents.”).


32. See Chien, supra note 31, at 1589; see also Ewing, supra note 11, at 30 (stating that privateering is more prevalent in industries where patents are
tion tactics tend to target “less financially-established defendants” (usually small or new competitors), a combination that epitomizes a David vs. Goliath scenario.  

B. PATENT PRIVATEERING: THE WHO, WHAT, WHEN, WHERE, HOW, AND WHY

Recall that patent privateering involves concerted activity between a PAE and a sponsor company. This Section explores the history of patent privateering, PAE activities, the privateering relationship, why privateering is popular, and the general effects of PAE activities.

1. Use of PAEs in Patent Privateering

Regulators first recognized PAEs as early as 2003. By 2006, PAEs gained the attention of the Supreme Court, raising their national profile and spurring debate. Since then, the number of PAEs and suits brought by them has increased dramatically. Each branch of the federal government and many state governments are investigating PAE business models. Nevertheless, most information about PAE ownership and activities remains unknown. And the state and federal governments have only attempted to address small parts of the problem.

interchangeable because this makes it easier for the privateer to assert infringement with some apparent validity).

33. See Chien, supra note 31, at 1592.
34. See supra p. 2168.
38. See O'Toole, supra note 27, at 66.
40. Efforts so far have mostly addressed patent trolls threatening litigation against thousands of small businesses at once. See FTC Settlement Bars Patent Assertion Entity from Using Deceptive Tactics, FED. TRADE COMM’N (Nov. 6, 2014), https://www.ftc.gov/news-events/press-releases/2014/11/ftc-settlement-bars-patent-assertion-entity-using-deceptive (stating that the number of letters sent by the PAE was over 9,000); Pamela M. Prah, State AGs Target Patent Trolls To Protect Business, USA TODAY (Nov. 25, 2013), http://
Many PAEs are sponsored and operate for the benefit of others. Universities, individual inventors, and technology development companies that do not practice their patents may engage in PAE sponsorship to protect their patent rights. But major Fortune 500 companies and even sovereign nations use PAEs not only to protect patents and generate royalties from infringers, but also for competitive purposes. For them, the competitive interests involved in harassing a rival or perceived corporate threat overshadows any economic interests. Their PAEs litigate hundreds of patent infringement lawsuits against rivals and threats to their own economies. It is thus perhaps unsurprising that PAEs bring more than 60% of U.S. patent litigation.

The rise in patent privateering, which involves PAEs, has been controversial because it carries the potential of anticompetitive abuse. In particular, regulators worry about PAE in-
volvement in the healthcare and technology industries because these sectors are economically substantial, implicate many patent rights, and have historically “been subject to a great deal of antitrust enforcement activity due to . . . alleged use of patents to exclude or limit competition.” Yet, no federal agency has taken any steps to break the swell.

2. Privateering’s Core Activities: Aggregation and Litigation

Privateering comprises two core activities: the aggregation and litigation of patents. Aggregation is the amassing of “vast treasuries of patents” and forming a patent arsenal. The aggregation of thousands of patents shifts the focus from the value of one patent to the size and diversity of a portfolio, which can be wielded like a club and pose a substantial threat to litigation targets facing hundreds of infringement allegations at once from a single PAE. But this is not to say that the patents held by mass aggregators are always weak; some are strong, making the threat of the club more intimidating and the seriousness of the suit hard to predict. This club can be “life threatening” when brandished against startups and small companies.

The relative threat of a patent infringement lawsuit depends on the size of the PAE’s patent arsenal. A larger patent arsenal enables a PAE to assert more infringement claims against a single target or against multiple targets and do so more credibly. Either approach often results in nudging rivals into less favorable competitive positions because the high cost

48. Reilly, supra note 20, at 85.
50. See Lemley & Melamed, supra note 10, at 2153; Orr, supra note 17, at 538.
53. See id. (stating that “mass patent aggregators may be vehicles that favor established players over upstarts”).
54. See, e.g., Ewing, supra note 11, at 34–35; Wynne, supra note 25, at 1024–25.
56. Ewing, supra note 11. A less favorable position may mean market exclusion or increased costs through payment of settlement royalties, making the targets less competitive. Id.
of defending a suit incentivizes settlement or exit from the industry.\(^{57}\)

Both litigation and aggregation have been wildly successful strategies for sponsor companies, padding the bottom line with additional revenue, while eliminating other patent litigation risks such as infringement counter-suits (since the PAE does not practice any patents) and reputation costs (with customers, shareholders, partners, or standard-setting entities).\(^{58}\) Secrecy also eliminates the risk of responses by regulators.\(^{59}\) Since there are very few consequences, more and more large companies have seen patent privateering as a way to generate new and additional revenue or gain competitive benefits in the wake of the 2008 Great Recession.\(^{60}\) As a result, these activities are increasing in volume, frequency, and aggressiveness.

3. How Sponsor Companies Structure a Privateering Relationship

There are at least three common types of patent privateering relationships. Public disclosure is a sponsor’s greatest potential liability, so any privateering arrangement must be stealthy.\(^{62}\) Secrecy limits a rival’s ability to retaliate against the

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57. See Brief of Public Knowledge & the Electronic Frontier Foundation as Amici Curiae Supporting Neither Party at 17, Altera Corp. v. Papst Licensing GmbH & Co. KG, Nos. 15-1914, 15-1919 (Fed. Cir. 2015), https://www.eff.org/files/2015/12/21/brief-altera-v-papst.pdf ("[S]mall companies are . . . the ones most likely to succumb to undue settlement pressure . . . ."). Note also that the average cost of patent litigation involving a PAE is about $980,000 through the end of discovery and $1.75 million or more through trial. R. David Donoghue et al., Fighting Smarter Against NPEs, in NON-PRACTICING ENTITIES PATENT LITIGATION 2013, supra note 27, at 202; see also Wynne, supra note 25, at 1022.


59. For example, the Department of Justice would not be able to discern a pattern of predatory litigation by a market leader and bring criminal charges under the Sherman or Clayton Acts.

60. See McClure, supra note 14.


62. Cf. Ewing, supra note 11, at 6 (explaining that “a sponsor’s goals for a privateering operation are often defeated by public exposure” and that
sponsor with counterclaims for patent infringement or anti-
trust violations, harm the sponsor’s reputation, complain to
regulators about a larger competitor’s predatory conduct, or re-
spond to lawsuits in a more calculated way.63

First, a sponsor company may license one of its patents to a
PAE.64 Through the licensing agreement, the PAE is granted
the exclusive right to assert the patent against infringers and
litigate the patent in court. The licensing agreement may also
provide the sponsor with some control over the PAE’s patent in-
fringement lawsuits.65 But unlike other relationships, here
sponsor secrecy can be disclosed via discovery.66 In some cases,
licensing may also limit a PAE’s standing to bring suit.67

Second, a sponsor company may contract with a PAE in the
hopes of compelling the PAE to use its own patents to sue the
sponsor’s rivals.68 A sponsor could also invest in the PAE.69 In
such cases, the sponsor may be able to obtain greater secrecy
since no patent assertion contract would exist, and the sponsor
would exercise control over the PAE as a private part-owner.70

Third, and the most likely, the sponsor company could as-
sign its patents to a PAE, but retain a license for practicing the
patent.71 The assignor-sponsor could also contract for the ability
to direct assertions against rivals72 or hold ownership in the
PAE.73 Because patent assignments are not required to be rec-
ordered, the secrecy of a privateering arrangement can be main-

63. Id. at 9.
64. See Lemley & Melamed, supra note 10, at 2139 (“[C]ompanies rarely
sell their ‘crown jewels’—patents that they need to prevent copying of technol-
gies they consider critical . . . .”).
65. See, e.g., Wynne, supra note 25, at 1026. The license may instead
simply provide guiding principles for how to choose a litigation target. See
Lemley & Melamed, supra note 10, at 2138.
66. See Alan Devlin, Antitrust Limits on Targeted Patent Aggregation, 67
FLA. L. REV. 775, 835 (2015); Popofsky & Laufert, supra note 17, at 460.
67. See Max Grant & Kieran Dickinson, Cases on Standing Hold Lessons
for Patent Privateers and Defendants, MANAGING IP, Oct. 2013, at 22,
https://www.lw.com/thoughtLeadership/standing-lessons-for-privateers-and-
defendants.
68. See Ewing, supra note 11, at 5–6, 33.
69. Id. at 73.
70. See id.; Lemley & Melamed, supra note 10, at 2138.
71. See Orr, supra note 17, at 541.
72. Economists’ Roundtable on Hot Patent-Related Antitrust Issues, supra
73. See Ewing, supra note 11, at 5–6.
While this arrangement may provide the sponsor with significant control, secrecy could be compromised if the corporate veil is pierced. Evidence suggests this arrangement is most common.

Due to the desire for secrecy, either the second or third type of relationship is both popular and effective in securing the anticompetitive effects of patent privateering.

4. Privateering’s Advantages for Sponsors and Negative Effects for Everyone Else

The significant incentives for sponsors to engage in privateering have undoubtedly propelled privateering’s growth in recent years. Privateering offers litigation cost savings to sponsors, may result in the receipt of larger settlements and judgment awards, and enables the sponsor company to focus on its actual business. Beyond financial benefits, patent privateering also reduces reputational losses and other consequences from suing competitors, allows sponsors to secretly bombard...

74. See, e.g., Susan G.L. Glovsky, Guest Post: It’s Time for a Reliable System To Determine Who Owns a U.S. Patent, PATENTLY-O (Mar. 6, 2012), http://patentlyo.com/patent/2012/03/patent-recordation.html (remarking that “defendants in a lawsuit may have to take it on faith that the seller, licensor, borrower, or plaintiff truly owns” the patent-in-suit). When patent assignments are recorded, they can be viewed online. See Assignment Search, U.S. PATENT & TRADEMARK OFFICE, http://assignment.uspto.gov (last visited Apr. 4, 2016).

75. See Gordon, supra note 46. However, PAEs can create shell companies to create further layers of secrecy to slim the risks of piercing. See Wynne, supra note 25, at 1032–33; see also David Balto & Matthew Lane, Abstract for The Patent Privateering Iceberg (Feb. 7–8, 2014) (unpublished manuscript), http://law.scu.edu/hightech/wipp2014 (“NPEs often employ a complicated ownership structure consistent of many shell companies to hide patent ownership.”).

76. “Sales to PAEs and other non-practicing entities represent 75 per cent of all patent transactions.” Popofsky & Laufert, supra note 15, at 2.

77. See id. at 4; cf. PATENT LITIGATION: LITIGATING AGAINST A NON-PRACTICING ENTITY, PRACTICAL LAW PRACTICE NOTE 5-553-7946 (2016) [hereinafter PATENT LITIGATION PRACTICE NOTE] (stating that PAEs often sue using largely the same counsel, experts, and evidence); Economists’ Roundtable on Hot Patent-Related Antitrust Issues, supra note 16, at 19; Chien, supra note 45 (stating that most PAEs litigate on contingency and have attorneys well-versed in patent litigation).

78. See PATENT LITIGATION PRACTICE NOTE, supra note 77.

79. Orr, supra note 17, at 541; see Gordon, supra note 46 (stating that few companies can successfully manage commercializing patents and running their core business operations).

80. Economists’ Roundtable on Hot Patent-Related Antitrust Issues, supra note 16, at 19; see Ewing, supra note 11, at 6–7; Schwartz, supra note 52, at
rivals, helps achieve competitive results, and reduces the risk of antitrust violations (due to the secrecy of the sponsor’s identity). It also allows large competitors to “control the location the case will be heard” as well as to gain various jurisdictional advantages. 

Privateering has also thrived in the current patent environment, which entails the under-utilization and under-capitalization of patents, a proliferation of weak and overly-broad patents, increased outsourcing of functions by corporate America, high patent litigation costs, the ability to easily engage in opportunistic litigation and secure favorable settlements, a large patent marketplace for purchasing patent rights, legal uncertainty regarding the merit of infringement accusations, and prohibitive costs in amassing large, defensive patent arsenals.

53; Wynne, supra note 25, at 1021.
81. See generally Ewing, supra note 11 (discussing how sponsors use PAEs to stifle competitors).
82. Id. at 31, 46 (stating that PAEs can more credibly threaten to sue for patent infringement); see Lemley & Melamed, supra note 10, at 2139–46.
83. Wynne, supra note 25, at 1032–33.
84. See Brief of Public Knowledge & the Electronic Frontier Foundation as Amici Curiae Supporting Neither Party, supra note 57, at 15–18.
86. MATSUURA, supra note 23, at 23; see Economists’ Roundtable on Hot Patent-Related Antitrust Issues, supra note 16.
87. See Ewing, supra note 11, at 14; see also Lemley & Melamed, supra note 10, at 2165–66 (stating that there is an “everyone does it” attitude with privateering); Seidenberg, supra note 85.
88. See, e.g., Chien, supra note 31, at 1584; Seidenberg, supra note 85.
91. See, e.g., Florian Mueller, Nokia and Ericsson Seek To Justify Their Privateering Ways, Defend Patent Transfers to NPEs, FOSS PATENTS (May 21, 2005), http://fosspatents.com/2015/05/nokia-and-ericsson-seek-to-justify.html (“Smartphone patent assertions are so vastly unsuccessful that I’ve arrived at the conclusion that the term ‘intellectual property’ is a propagandistic misnomer . . . . [W]hen the vast majority of assertions turn out meritless . . . . transaction costs are totally out of proportion . . . .”).
92. See, e.g., Schrepel, supra note 28 (discussing briefly the mutually assured destruction theory of patent ownership); see also Chien, supra note 31, at 1584–85 (discussing the complications, risks, and expenses of patent litigation between large companies).
Nevertheless, privateering may face some disadvantages. For example, judges and juries tend to view PAE claims unsympathetically.93 Further, the possibility of obtaining an injunction against a target is smaller since PAEs do not practice the patents-in-suit.94 A PAE also cannot obtain damages for lost profits that the sponsoring company might otherwise collect.95 However, since privateering is not primarily purposed on collecting royalties or enjoining alleged infringement, experts predict privateering will become even more widespread in the future.96 And it is not so much the likelihood of success on the merits, but instead the high likelihood of forcing a defendant to settle out of court that enables this litigation model.97

Most criticisms of patent privateering relate to the effect patent privateering has on other actors in the patent system. For example, patent privateering interferes with innovation by increasing litigation costs to inventors,98 forcing competitors to withdraw from the market,99 facilitating bully-like behavior among actors in the patent system,100 taxing “business, investment, growth and opportunity,”101 and encouraging settlement

93. PATENT LITIGATION PRACTICE NOTE, supra note 77.
94. Id.
95. Id.
96. Seidenberg, supra note 85 ("It lowers companies’ risk and puts the burden of enforcement on others. I don’t see why this [trend] would stop." (internal quotation marks omitted) (quoting Matthew Rappaport, managing director of patent analytics company IP Checkups)).
97. See infra Part II.A.
98. See EXEC. OFFICE OF THE PRESIDENT, supra note 45, at 10; Lemley & Melamed, supra note 10, at 2118; Wynne, supra note 25, at 1009.
100. Schwartz, supra note 52, at 64.
of meritless patent claims. On the competitive and economic end, patent privateering unfairly harms rivals by scaring off customers and suppliers with threats of litigation, removing high transaction costs that discourage nuisance litigation, engendering a norm of businesses suing each other indirectly and the formation of invest-to-sue entities, enabling a competitor to indirectly affect a rival’s valuation, reducing incentives for competitors to engage in cross-licensing truces (which are socially efficient), raising rivals’ costs, and providing a method for companies involved in standard-setting to potentially evade fair, reasonable, and non-discriminatory (FRAND) licensing commitments. Patent privateering reportedly costs the U.S. economy around $29 billion each year, the costs of which often “falls squarely on the shoulders of the consumer.”

5. Proposals To Address Privateering

Given the general effects of patent privateering noted above, policy-makers have called for legal reforms. Most have proposed rules designed to lift the veil concealing the identity of

102. Donoghue et al., supra note 57, at 201; Wynne, supra note 25, at 1022 (citations omitted); see also The Patent Troll Problem, supra note 61 (stating that fewer than 1% of suits are found to have infringed a valid patent).

103. Wynne, supra note 25, at 1032. Demand letters are even being sent to frighten consumers. See Demand Letters—Senate, supra note 101, at 2–3 (statement of Sen. Claire McCaskill, Chairman).

104. See Ewing & Feldman, supra note 35, at 23.

105. Gordon, supra note 46.

106. Id.


108. See Popofsky & Laufert, supra note 17, at 456–57.

109. See id.; Schrepel, supra note 28 (“[Evading FRAND commitments] is one of the most harmful side effects of patent privateering.”).


111. See O’Toole, supra note 27, at 68. See generally Golden, supra note 89, at 600–17 (discussing a variety of suggestions for how to reduce the harmful effects of patent privateering).
the sponsor company. For example, one proposal argues for a rule requiring all parties to a lawsuit to list all persons with an interest in the outcome of a case.\textsuperscript{112} Other ideas increase sanctions or provide fee-shifting for unjustified, vexatious, or bad faith litigation.\textsuperscript{113} Some proposals suggest amending patent laws to require notice to the United States Patent and Trademark Office (USPTO) of any assignment or sale of patents\textsuperscript{114} and increase the plaintiff’s burden to show infringement.\textsuperscript{115} Lastly, some argue for outlawing patent privateering altogether—a perhaps unrealistic goal.\textsuperscript{116}

Most recently, the private sector has attempted to address patent privateering by providing startups with patent rights free of charge in an effort to bring them within Google’s realm of litigation protection.\textsuperscript{117} Google has also engaged in several large cross-licensing deals with other major technology companies as a preemptive measure to protect itself from patent privateering at the hands of its peers.\textsuperscript{118} However, Google’s program is unlikely to solve the patent privateering problem generally.\textsuperscript{119} Finally, some commentators have expressed optimism that antitrust law counterclaims or defenses are availa-

\textsuperscript{112} See Ewing, supra note 15, at 120–21; O’Toole, supra note 27, at 70–72 (citing H.R. 2639, 113th Cong. and S. 1013, 113th Cong.) (discussing the America Invents Act).

\textsuperscript{113} See Ewing, supra note 15, at 123; see also O’Toole, supra note 27, at 68–71 (citing, inter alia, H.R. 845, 113th Cong.) (discussing the America Invents Act and SHIELD Act).

\textsuperscript{114} O’Toole, supra note 27, at 70 (citing H.R. 2024, 113th Cong.).


\textsuperscript{117} Mlot, supra note 46.


\textsuperscript{119} See generally Rice, supra note 118, at 773–74 (exploring defensive tactics that may be used in the future, but stating that “[n]o single private action will cure the current patent system”).
Scholars have considered whether antitrust law is applicable, with varying opinions.121

C. United States Antitrust Laws

United States antitrust law exhibits the fundamental belief that free enterprise, open markets, and competition achieve an optimal economic system.122 The Sherman Act buttresses this belief not only by imposing criminal liability on violators, but also providing for treble damages.123 It also seeks to promote and protect competition by ensuring the process of competition remains fair.124

Antitrust law does not protect competitors from other competitors. Rather, it prohibits competitor conduct that unjustifiably forecloses competition and harms consumers.125 Because patent rights allow patent holders to exclude others from creating products based on a patented invention, the antitrust laws arguably conflict with the grants of power created by patent laws.126 Thus, policy-makers must determine the best balance between spurring innovation and protecting competition, though both can sometimes be achieved independently.127 With the onset of patent privateering, scholars have turned their attention to evaluating whether or not competitors may legally use patent litigation to exclude rivals from participation in the market.128

120. Foster, supra note 20; Reilly, supra note 20; Orr, supra note 17.
121. E.g., Popofsky & Laufert, supra note 17; infra notes 215–16.
122. FTC REPORT, supra note 22, at 1; see Daryl Lim, Patent Misuse and Antitrust: Rebirth or False Dawn?, 20 MICH. TELECOMM. & TECH. L. REV. 299, 310 (2014).
123. See, e.g., 15 U.S.C. § 1 (2012) (stating that any person violating the section is guilty of a felony, punishable by a fine not exceeding $100,000,000, if a corporation).
125. See id.
128. See, e.g., Meurer, supra note 31, at 521.
There are several antitrust counterclaims and defenses that a targeted small business could assert in response to a suit by a patent privateer.129 The following subsections review possible relevant antitrust claims and defenses.

1. Section 1 of the Sherman Antitrust Act

Section 1 of the Sherman Antitrust Act makes illegal “[e]very contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade or commerce.”130 Section 1 exclusively concerns collective, concerted conduct and addresses both horizontal (between competitors) and vertical (supply chain) arrangements.131 Section 1 only applies to agreements between independent entities, so parent companies are not liable under the act for arrangements with wholly-owned subsidiaries or those partially-owned, over which they have control.132

Courts apply either a per se or rule of reason test for Section 1 liability.133 Per se tests are only used when the agreements in question are obviously anticompetitive, such as price-fixing agreements.134 Conduct that is not per se illegal is evaluated using the rule of reason test, which essentially requires the court to determine whether the conduct is more anticompetitive than pro-competitive.135 Courts primarily consider whether the conduct forecloses on competition or harms consumers—an interrelated analysis.

2. Section 2 of the Sherman Antitrust Act

The second Section of the Sherman Antitrust Act states that “[e]very person who shall monopolize, or attempt to monopolize, or combine or conspire with any other person or persons, to monopolize any part of the trade or commerce” is guilty

133. See Balto & Wolman, supra note 126, at 399.
134. Id.
136. See Balto & Wolman, supra note 126, at 437.
of anticompetitive behavior. A company violates Section 2 if it attempts to acquire monopoly power in its market or willfully maintains its power in anticompetitive ways. Monopoly power is the ability “to foreclose competition, to gain a competitive advantage, or to destroy a competitor.” It can be shown when a company has the ability to directly affect rivals or has a market share of at least 50%. Section 2 applies to both collective conduct and unilateral conduct.

Section 2 claims are somewhat unpredictable, as the law is “more than a little confused.” Generally speaking, there are two elements to a monopolization claim: (1) possession or attempted possession of monopoly power in the relevant market; and (2) willful acquisition or maintenance of monopoly power through anticompetitive conduct, distinguishable from mere “growth or development as a consequence of a superior product, business acumen, or historic accident.” Courts look to whether there exists a dangerous probability of achieving monopoly power in attempted monopolization cases.

The Supreme Court has stated that predatory litigation and associated conduct “may be sufficient to prove the necessary intent” for Section 2 claims. Exclusionary and predatory conduct in general can satisfy intent as well. This includes abuse of process, espionage or sabotage, patent abuses, and

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139. Balto & Wolman, supra note 126, at 401.


141. See, e.g., United States v. Dunham Concrete Prods., Inc., 501 F.2d 80, 82 (5th Cir. 1974); Balto & Wolman, supra note 126, at 401.


143. See, e.g., Grinnell Corp., 384 U.S. at 570–71.


146. See Chia, supra note 16, at 228.
vexatious or repetitive litigation.\textsuperscript{147} Meritless patent litigation exhibits the requisite conduct and intent to unlawfully attempt to monopolize.\textsuperscript{148} Outsourcing patent litigation in an effort to maintain or obtain monopoly power may even be sufficient.\textsuperscript{149}

In attempts to monopolize, establishing a dangerous probability of success often requires an analysis of the party’s likelihood of achieving monopoly power in a relevant market, in view of the party’s current market share and the barriers to achieving monopoly power.\textsuperscript{150} Merely holding a patent does not usually convey a dangerous probability of achieving monopoly power.\textsuperscript{151} Additionally, highly competitive markets with low market shares and low barriers to entry “do not attract much antitrust concern.”\textsuperscript{152} Less competitive, highly centralized markets with high barriers to entry have more antitrust risk.

3. \textit{Handgards} Sham Litigation

Patent holders are generally immune from antitrust liability unless they engage in meritless sham litigation or use a patent in some way to extend market power beyond the power granted by the patent.\textsuperscript{153} This exception is called \textit{Handgards} sham litigation and is one of a handful of specific applications of Section 2 of the Sherman Antitrust Act.\textsuperscript{154}

Under \textit{Noerr-Pennington} immunity, all persons have a right to petition the government for grievances under the First Amendment, and this has been interpreted to apply to law-

\textsuperscript{147} MACAVOY, supra note 132; Mark E. Roszkowski & Ralph Brubaker, \textit{Attempted Monopolization: Reuniting a Doctrine Divorced from Its Criminal Law Roots and the Policy of the Sherman Act}, 73 MARQ. L. REV. 355, 360–61 (1990); Schwarz et al., \textit{supra} note 129; Chia, \textit{supra} note 16.

\textsuperscript{148} Ewing, \textit{supra} note 15, at 139; \textit{see infra} Part I.C.3.

\textsuperscript{149} \textit{See} Ram Menon & Kevin Spivak, \textit{Trends in Mobile and Consumer Electronics}, 48 LES NOUVELLES 238, 239 (2013).


\textsuperscript{151} \textit{See id.}

\textsuperscript{152} Balto & Wolman, \textit{supra} note 126, at 403–04.

\textsuperscript{153} \textit{See id.}

\textsuperscript{154} Steinman & Fitzpatrick, \textit{supra} note 150, at 105.

\textsuperscript{155} \textit{See} Baskin, \textit{supra} note 131, at 1743. There are also other specific types of Section 2 claims, such as \textit{Walker Process} claims. \textit{See generally} Steinman & Fitzpatrick, \textit{supra} note 150 (outlining the elements of \textit{Walker Process}, \textit{Handgards} or sham-litigation claims and explaining the grounds on which these claims may be attacked in motions to dismiss and/or at the summary judgment stage). However, these claims are not applicable unless the patents involved are invalid due to fraud. \textit{Id.}
suits. However, no person may petition the government in meritless ways as a strategy to harm competitors and consumers. Handgards claims reflect the understanding that patent holders may not use litigation as an illegitimate weapon in a concealed attempt to interfere with a competitor. This doctrine also establishes, however, that in order for a lawsuit to violate the antitrust laws, it must be a complete sham, focused not on the outcome of the case, but instead on the anticompetitive results of the judicial process.

4. Section 7 of the Clayton Act

Section 7 of the Clayton Act outlaws acquisitions of assets (such as patents) where the effect of such transactions “may be substantially to lessen competition or to tend to create a monopoly in a relevant market.” This can be shown when acquisition of patents allows the acquirer to exert monopoly power (similar to that defined in Section 2 claims) and substantially lessens competition within a relevant market.

5. The Affirmative Defense of Patent Misuse

Patent misuse is an affirmative defense to a patent infringement suit. The doctrine states that patent rights are privileges, not unconditional rights, which are abused when used to extend the patent’s exclusionary power beyond the scope of protection that is reasonably granted by the patent. A defendant must prove that conduct not only extended the privilege beyond the scope of the patent, but also caused anticompetitive injury. This injury can be shown by proving the patent was used in a way that violates antitrust laws or that the patent holder has engaged in some element of anticompeti-

158. Roszkowski & Brubaker, supra note 147, at 416.
161. Lim, supra note 122, at 308; O’Toole, supra note 27, at 79–80.
162. See Lim, supra note 122, at 318–19.
163. See Schwarz et al., supra note 129.
164. See id.
tive behavior, using its market power to force parties to act in ways they would not otherwise act in a competitive market. 165

Since it is a defense, patent misuse does not necessarily confer on the defendant a right to recover attorney’s fees. 166 It does not even invalidate the offending patents—the misused patents are only unenforceable until the patent holder cures the misuse. 167 Some have argued for a broader and “more robust” patent misuse doctrine that could invalidate patents fully in cases of clear antitrust wrongs. 168 However, other scholars have argued that patent misuse duplicates antitrust laws and has a weak foundational justification. 169

II. APPLICATION OF ANTITRUST LAW TO PATENT PRIVATEERING

This Part adds depth to the discussions of other commentators, who have previously addressed the general, broad effects of patent privateering, by specifically focusing on patent privateering against small businesses. Section A analyzes how patent privateering affects small businesses, as opposed to large companies. Section B compares arguments put forth by other commentators on how to apply antitrust law to patent privateering, exposing analytical holes and adding discussion for patent privateering against small businesses.

A. THE EXACERBATED EFFECTS OF PATENT PRIVATEERING ON SMALL BUSINESSES

Many of the anticompetitive effects associated with patent privateering 170 apply with greater force to small businesses and small business rivals—the most common PAE target. 171 This is primarily because small (and often new) businesses are the


166. See O’Toole, supra note 27, at 79–80.

167. Lim, supra note 122, at 309.

168. See, e.g., Golden, supra note 89, at 611.


170. See supra Part I.B.5.

171. EXEC. OFFICE OF THE PRESIDENT, supra note 45, at 10. But see Chien, supra note 31, at 1601 (showing that PAEs target the largest companies 40%, and new startups about 25%, of the time).
least likely to challenge patent infringement lawsuits brought by PAEs. Since entrepreneurs lack the time, resources, and sometimes even mental fortitude to address such lawsuits, they often are forced to settle before truly preparing a defense. Patent litigation can be “lethal” to small companies both logistically and financially. Defending a patent often requires hundreds to thousands of hours of additional work and may cost more than $5 million. Therefore, when aimed at small businesses, privateering can be highly anticompetitive by (1) raising small rivals’ costs; (2) impeding small rivals’ ability to operate in or enter a market; and (3) foreclosing on competition in innovation. These effects on small businesses significantly risk their exclusion from the market—a result that is unlikely when patent privateering is targeted at large competitors.

1. Raising Small Rivals’ Costs

First, when settlement terms are prohibitively expensive, small businesses may be forced to increase prices, withdraw from the market, or expend extremely limited resources on a legal fight. Unlike larger companies with considerable reserves and/or cash flow, small companies are ill-equipped to pay settlements or pursue expensive and lengthy litigation.

172. E.g., Duan, supra note 31; see Brief of Public Knowledge & the Electronic Frontier Foundation as Amici Curiae Supporting Neither Party, supra note 57, at 17–18.


176. See EXEC. OFFICE OF THE PRESIDENT, supra note 45, at 10.

177. Indeed, one of the most common reasons a small business fails is insufficient capital, which may be siphoned away by legal fees. See Patricia Schaeger, The Seven Pitfalls of Business Failure and How To Avoid Them, BUSINESSKNOWHOW, http://www.businessknowhow.com/startup/business-failure.htm (last visited Apr. 4, 2016).

178. Duan, supra note 31 ("Big companies like Cisco have $13 million to battle these tactics and obtain justice. Little startups, small businesses, and solo entrepreneurs do not.").
In addition to the disproportionate ability of small businesses to defend themselves, the legal costs to defend a suit can be disproportionately greater for small businesses than for larger companies as well.\(^{179}\) Even if the lawsuit shows only slight or even no merit, it is usually cheaper for small businesses to settle.\(^{180}\) Thus, it is no wonder that some commentators have called patent litigation “the true sport of kings,”\(^{181}\) and PAE patent litigation against small companies “silent extortion.”\(^{182}\)

Since small businesses are more likely to settle patent infringement lawsuits,\(^{183}\) they usually must pass on the cost of any settlements to consumers.\(^{184}\) The increased costs of prod-

\(^{179}\). See Lloyd Dixon et al., The Impact of Regulation and Litigation on Small Business and Entrepreneurship: An Overview 20 (Kauffman-RAND Ctr. for the Study of Small Bus. and Reg., Working Paper No. 317-ICJ, 2006), http://www.rand.org/content/dam/rand/rand/pubs/working_papers/2006/RAND_WR317.pdf; see also Brief of Public Knowledge & the Electronic Frontier Foundation as Amici Curiae Supporting Neither Party, supra note 57, at 17 (“[S]mall companies are the ones least able to secure distant counsel, travel to a distant forum, and learn the procedures of a new jurisdiction.”); Xun Liu, Note, Joiner Under the AIA: Shifting Non-Practicing Entity Patent Assertions Away from Small Businesses, 19 MICH. TELECOMM. & TECH. L. REV. 489, 494 (2013) (“[S]mall businesses suffer greater direct impact from patent lawsuits because they pay more litigation costs relative to their size.”).


\(^{181}\). Hixon, supra note 4. Some have also described the situation faced by privateer’s targets as “giv[ing] up their gold and treasure, walk[ing] the plank or be[ing] put to the sword.” Tim Sparapani, Attack of the Patent Privateers, FORBES (Sept. 2, 2015), http://www.forbes.com/sites/timsparapani/2015/09/02/attack-of-the-patent-privateers/#2e7574bfe2184.


\(^{183}\). Again, this is primarily because small businesses are unwilling to “walk . . . the plank and tak[e] their chances while their business is under atta ck.” Sparapani, supra note 181.

\(^{184}\). Indeed, most businesses find this is necessary unless they hold substantial reserves. See generally Raphael Auer & Thomas Chaney, Exchange Rate Pass-Through in a Competitive Model of Pricing-to-Market, 41 J. MONEY CREDIT & BANKING 151 (2009) (developing a model of pricing-to-market pass-through under perfect competition and flexible prices); Michael B. Devereaux & James Yetman, Price Adjustment and Exchange Rate Pass-Through, 29 J. INT’L MONEY & FIN. 181 (2010) (describing a theoretical model that would account for the determinants of exchange rate pass-through to consumer price); Aaron Huff, Reality-Based Pricing, 166 COMM. CARRIER J. 26 (2009) (discussing how commercial carriers are using mapping software and GPS technology to more efficiently track their mileage so as to keep down the cost pass-
ucts and services offered by small rivals subsequently render them less competitive than large sponsor companies. Further, because small companies often settle in the face of threats of PAE litigation, there is greater possibility that royalties in excess of the value of the patents allegedly infringed upon will be gathered. This does not happen as often when larger companies are sued due to their willingness and ability to defend. In fact, most large companies are not the targets of patent privateering in the first place.

Finally, some PAEs target whole swathes of small business rivals at once. Sometimes small businesses ignore demand letters, but many settle. Thus, as a group, hundreds to thousands of small businesses operating in an industry and competing with a more-dominant firm can suffer increased costs and the host of other detrimental effects. Thus, patent privateering can enable a large company to raise tens to hundreds of rivals’ costs very efficiently.


186. See Symposium, Strategic Patent Acquisitions, 79 ANTITRUST L.J. 395 (2014). Some have attributed this to the nuisance or “holdup” value of a patent. See Chien, supra note 21, at 472–74; Popofsky & Laufert, supra note 15, at 2; see also Ewing, supra note 11, at 3 (stating that litigation tools such as PAEs can extract greater value from patent rights).


188. E.g., supra note 171 and accompanying text.

189. E.g., In re Innovatio IP Ventures, LLC Patent Litig., 921 F. Supp. 2d 903, 907 (N.D. Ill. 2013) (stating that 8,000 demand letters were sent to small businesses and end-users alleging patent infringement, but only twenty-six were actually litigated, in this case); FTC Settlement Bars Patent Assertion Entity from Using Deceptive Tactics, supra note 40 (stating that a PAE sent out 4,800 demand letters, but none went to trial).

190. Chien, supra note 21, at 472 (stating that 22% of all companies do nothing in response to a demand letter, 35% fought the demand in some way, 9% changed their products or business, 17% chose other actions, and 18% automatically settled).
2. Impeding Small Rivals’ Ability To Operate in or Enter a Market

Threats of litigation can also substantially impede a startup’s ability to attract and keep customers and raise funds. In 2012, 40% of PAE-targeted small companies reported a significant operational impact (such as a change in business, exit from the market, delay in milestone, change in product, etc.) as a result of a demand letter or an actual lawsuit brought by a PAE. About 13% of these small and startup companies exited their business or had to pivot their business strategy, and about 4% suffered fundraising impact. When small businesses are forced to change their offerings, raise prices, or exit the markets, this affects consumers by reducing choice and availability.

Patent litigation can also exacerbate barriers to entry for small companies, reducing competition and raising the cost of production. For example, a new entrant in an industry will face greater startup costs if sued by multiple incumbents as soon as entering. If an industry is known for such tactics, it is usually less attractive to entrepreneurs and investors. In fact, patent privateering is inversely related to venture capital investment. Large companies often do not need to worry about fundraising activities with investors.

191. See Demand Letters—Senate, supra note 101, at 13 (statement of Mark Chandler, Senior Vice President, Gen. Counsel, and Chief Compliance Officer, Cisco Systems, Inc.); Sparapani, supra note 181 (“[Startups] may get stabbed to death and choose to terminate their business entirely to end impoverishing litigation and avoid bogus infringement claims.”). For example, a four-employee startup that held a highly-ranked app on iTunes was forced to gut its app in response to a demand letter for royalties and removed features that customers liked. Id. at 11. The app is no longer successful, and the company is failing. Id.
193. Id. at 11.
194. Reilly, supra note 20, at 79; Dixon et al., supra note 179, at 20.
195. See Chien, supra note 21, at 474–76.
196. Kiebzak et al., supra note 11 (stating that venture capital investment would have been at least $8.1 billion higher over the course of a five year period but for frequent PAE litigation).
197. See Don Duffy, CEOs Need a “Healthy Paranoia” of Activist Investors, CNBC (Aug. 12, 2015), http://www.cnbc.com/2015/08/12/ceos-need-a-healthy-paranoia-of-activist-investors-commentary.html (“The upsurge of shareholder activist campaigns in recent years has been a hot topic for corporate America.”). Large companies are, however, subject to the opinions of investors in terms of management, governance, and direction. See id.
Threats of suit or actual litigation against small companies can have the effect of scaring away customers, suppliers, and other business partners, lowering stock prices and company valuations, disrupting mergers and acquisitions, distracting management, and prompting inefficient use of resources. Business partners, when faced with the threat of litigation, may even decide a joint venture’s costs outweigh the benefits.

A patent infringement lawsuit may also be asserted at extremely inopportune times in an attempt to head off a small rival’s momentum. In a real life example affecting valuations, a startup eyewear company named Ditto laid off four employees to defend a patent lawsuit and was later valued $3–4 million less than its pre-lawsuit valuation, hindering its ability to raise funds and compete in the eyewear market.

3. Foreclosing on Competition in Innovation

Small businesses are more important innovators in the U.S. economy than large companies, raising concerns about privateering’s effects on competition in innovation. Small businesses generate more patents per employee than large companies, employ a greater percentage of all scientists and engineers (38% compared to 27% employed by large companies), and “a small firm patent is more likely than a large

200. A lawsuit could be asserted right before a small business makes an initial public offering or starts offering a superior product in the marketplace.
201. Tucker, supra note 11, at 3.
202. See Lee-Makiyama, supra note 43 (noting that competition in innovation is not just a domestic concern, but also an international one as nations begin to employ patent privateering).
204. Schmidt et al., supra note 203.
firm patent to be among the top 1% of most frequently cited patents. Indeed, some commentators have stated that small businesses “may well be most important to [the] economy as agents of change signaled by the fact that the small firm contribution to innovation is most intense in leading edge technologies.”

Patent privateering is usually targeted at companies that are involved in high-tech patents, affecting competition in areas of cutting-edge innovation. In addition, high-tech patents tend to be more interchangeable and more likely to overlap, meaning that it is more difficult for small businesses to assess the validity of alleged infringement. Therefore, patent privateering against small businesses can disproportionately foreclose competition in innovation. This results in a prolongation of the technological status quo, which favors large incumbents but harms consumers through the stagnation of useful arts and sciences.


206. Id. at 25; see also BREITZMAN & HICKS, supra note 203 (“[T]he patents of small firms in general are likely to be more technologically important than those of large firms.”).

207. See Chien, supra note 21, at 464 (stating that 60% of litigation demands involved software or high-tech patents). Because small businesses develop more high-tech patents, and high-tech patents tend to be used in lucrative industries, this may partially explain why PAEs target small businesses more often than large companies. See EXEC. OFFICE OF THE PRESIDENT, supra note 45, at 10.

208. Chien, supra note 31, at 1589; see also Economists’ Roundtable on Hot Patent-Related Antitrust Issues, supra note 16, at 18–19 (discussing the difficulty in assessing whether one’s products and services actually infringe on technological patents); Ewing, supra note 11, at 30 (stating that privateering is more prevalent in industries where patents are interchangeable because this makes it easier for the privateer to assert infringement with some apparent validity); Herbert Hovenkamp, Anticompetitive Patent Settlements and the Supreme Court’s Actavis Decision, 15 MINN. J.L. SCI. & TECH. 3, 17 (2014) (stating that deference to settlements of patent infringement suits exists because they are “plagued with validity and boundary problems so severe that judges cannot have a great deal of confidence in the courts”).

209. See, e.g., COHEN ET AL., supra note 110, at 18–20; Chien, supra note 21, at 474; Kiebzak et al., supra note 11, at 220; Muschick, supra note 182. For example, health IT companies have been found to cease all innovation in a given technology while being sued for patent infringement by a PAE. EXEC. OFFICE OF THE PRESIDENT, supra note 45. Another example is X-Plane, a company sued by Google, which abandoned development of certain new products altogether as a result of the lawsuit. Mullin, supra note 19.
The above-mentioned effects can disproportionately foreclose competition by raising small rivals’ costs, forcing them to exit the market, discouraging rivals from entering the market, providing large sponsor companies with superior litigating positions, and reducing or foreclosing competition in innovation. All of these effects are anticompetitive in its most basic concept and consequently harm consumers and societal progress.210

B. EXISTING COMMENTARY FAILS TO ADEQUATELY CONSIDER HOW PATENT PRIVATEERING AFFECTS SMALL BUSINESSES

Only a handful of commentators have addressed patent privateering and the application of antitrust law, and there are few cases even indirectly on point.211 Some commentators are hopeful that antitrust law holds a solution to counter the worst cases of patent privateering,212 but others disagree, concluding that outside limited scenarios, antitrust laws are inapplicable to patent privateering.213 All past commentators appear to agree that antitrust law probably cannot provide refuge from privateering for all businesses, but none have considered how small businesses are uniquely and disproportionately affected by patent privateering.

This Section considers the viability of the antitrust counterclaims and defenses discussed in Part I.C, in the same order. It closes by discussing the practical problem of concealed sponsor identity, which limits the availability of antitrust theories to counter privateering.

210. See Morton & Shapiro, supra note 186, at 494–95.

211. There is, however, a current English case, which will be the first to consider “the phenomenon of patent privateering.” In Patent Portfolio Licenses, English Court Considers Patent Privateering and Gives Further Guidance on FRAND Terms, 4-TRADERS (Dec. 10, 2015), http://www.4-traders.com/HUAWEI-TECHNOLOGY-CO-LTD-7785078/news/In-patent-portfolio-licences-English-Court-considers-patent-privateering-and-gives-further-guidance-21540123. The court appears to plan to address the privateering issues in summer 2016. See id.

212. See Popofsky & Laufert, supra note 15, at 12; Popofsky & Laufert, supra note 17, at 446–47.

1. Section 1 Claims

Section 1 claims involve contracts in restraint of trade between two or more competitors.\(^{214}\) When \textit{two competitors} contract to \textit{jointly} sponsor and control a PAE, such would likely violate Section 1 because it would be obviously anticompetitive.\(^{215}\) However, as explained earlier, such an arrangement would be extremely uncommon.

By contrast, a privateering arrangement might involve an agreement between one sponsor and a privateered PAE.\(^{216}\) If the sponsor and PAE have a licensing or similar agreement, then a rule of reason analysis would be performed because agreements of this type are not currently per se violations. But because most privateering arrangements exist via transfers of ownership,\(^{217}\) Section 1 claims probably fail because no contract is involved.

Even if a privateering arrangement is memorialized in the form of a license agreement, small business defendants may face another potential problem: the fact that the sponsor company maintains an ownership stake in the PAE, meaning the relationship could be a \textit{close} one and not subject to Section 1 as a result. This is because parent companies are not liable for anticompetitive arrangements with wholly-owned or substantially-controlled subsidiaries.\(^{218}\) Thus, this form of PAE sponsorship is insulated from Section 1 claims.

Assuming this issue does not arise, though, a privateering agreement’s effects would most likely be more anticompetitive than pro-competitive when the privateering is directed against small businesses, for the reasons put forth in Part II.A. However, this scenario is more susceptible to arguments for pro-competitive benefits. For example, a PAE could be merely facilitating the assertion of patents in a more effective and efficient way than the sponsor company could on its own, freeing the sponsor to focus on other competitive activities such as R&D.\(^{219}\)

\(^{214}\) \textit{See supra} Part I.C.1.

\(^{215}\) \textit{See Popofsky & Laufert, supra} note 15, at 12 (discussing how Nokia and Microsoft pooled their patents and used one PAE to sue competitors); Popofsky & Laufert, \textit{supra} note 17, at 460–61 (discussing how competitors may conspire to sue other competitors in the terms of a settlement).

\(^{216}\) \textit{See supra} Part I.B.3.

\(^{217}\) \textit{See supra} Part I.B.3.

\(^{218}\) \textit{MACAVOY, supra} note 132.

\(^{219}\) \textit{See Jurata & Patel, supra} note 160, at 1268.
would likely not find that the agreement constitutes an unreasonable restraint of trade.\footnote{220} However, the same commentators did not consider the unique ways in which patent privateering disproportionately affects small businesses, and the unbalanced effects stated in Part II.A are far from reasonable.\footnote{221}

Except in the rare circumstance of co-sponsored patent privateering, Section 1 probably cannot readily provide a small business defendant relief under the antitrust laws because it is too easy for sponsors to create a privateering arrangement without drafting an agreement. In fact, the evidence suggests that this is already occurring.\footnote{222}

2. Section 2 Claims

Unlike Section 1 claims, which apply to agreements in restraint of trade, Section 2 claims prohibit monopolization, attempts to monopolize, and conspiracy to monopolize.\footnote{223} Because monopoly power is the ability “to foreclose competition, to gain a competitive advantage, or to destroy a competitor,”\footnote{224} the analysis in Part II.A suggests that most instances of patent privateering against small businesses have the effect of granting sponsors greater market power. Even when a sponsor targets hundreds to thousands of small competitors, it may be said to obtain market power because its efforts could drive up costs for all small rivals in the industry as well as increase prices for consumers and reduce the availability of important goods and services from alternative, smaller businesses.\footnote{225} Admittedly, courts may not be willing to adopt such a sweeping understanding from the outset.

In theory, most instances of patent privateering against small businesses are actionable under Section 2 if courts accept the above argument. Some commentators anticipate this understanding, pointing out, however, that the link between raising rivals’ costs to maintenance or acquisition of monopoly power must be strong.\footnote{226} The analysis in Part II.A shows a siza-
ble causal link, especially in view of the exacerbated effects patent privateering has on small businesses. If monopoly power can be established, the traditional unilateral monopolization claim proceeds to whether the patent privateering constitutes a willful acquisition or maintenance of monopoly power.227 Since patent privateering is purposed on hindering rivals’ ability to compete with the sponsor, the mere existence of the arrangement should establish the requisite intent.228

However, since monopoly power is always viewed in relation to the market a potential monopolist occupies, Section 2 claims must always be directed at sponsor companies.229 This is because PAEs do not operate in a given market, so they cannot be liable under Section 2 monopolization or attempts to monopolize. Intellectual Ventures I v. Capital One illustrates this limitation.230 In that case, Capital One counterclaimed Intellectual Ventures I, the largest PAE in the world,231 under Section 2 of the Sherman Act and Section 7 of the Clayton Act.232 Capital One also asserted patent misuse as a defense.233 Both counterclaims and the misuse defense were dismissed, mostly due to the PAE’s lack of market power in the relevant market.234 However, if Capital One would have been able to determine the sponsor, a Section 2 claim should have been viable against that sponsor, joined by counterclaim.

Given the detrimental impact patent privateering can have on small businesses, a small business defendant should also be able to successfully allege a sponsor’s dangerous possibility of achieving monopoly power for attempted monopolization claims.235 The extent of dangerousness may be debatable, depending on the size and market power of the sponsor company,

229. See, e.g., PATENT LITIGATION PRACTICE NOTE, supra note 77 (“The alleged infringer would need to add the original patent holder as a counterclaim defendant and establish . . . monopoly in the relevant market.”).
tfreedom.com/about-npes/holdings (last visited Jan 3, 2015). Intellectual Ventures has an estimated 25,000 to 30,000 U.S. patents. Id.
233. Id. at 9–10.
234. Id. at 11.
235. See Popofsky & Laufert, supra note 17, at 456.
the characteristics of the market, and the strategy pursued; the
greater the market share and breadth of targeting, the more
dangerous the probability. Since it is unlikely that large spon-
sors would engage in patent privateering (as opposed to simply
suing in its own name) for non-competitive purposes, attempted
monopoly claims should be successful if asserted against the
sponsor. In instances of small companies using patent priva-
teering against similarly-sized rivals, an attempted monopoliza-
tion claim is more questionable, but still very possible.

Conspiracies to monopolize depend on similar factors as
Section 1 and Section 2 claims, and authority suggests that
such a claim may be asserted against any member of a conspir-
acy or all of them.236 This may be the best Section 2 claim if evi-
dence suggests that the PAE is engaged in privateering, but the
sponsor is unknown and suspected to be a large market player.
Still, ascertaining the sponsor company’s identity will be neces-
sary to prove the conspiracy. This practical difficulty seriously
limits the ability to assert a successful Section 2 counter-
claim.237

3. Handgards Claims

Following the analysis above relating to Section 2 claims, a
small business defendant could also assert a Handgards coun-
terclaim by arguing that the patents being asserted are invalid
or that the suit is objectively baseless.238 This strategy would
probably be most successful when the patent privateer asserts
infringement of many different patents, using its large patent
arsenal to artificially increase the size of the litigation threat,
when no legitimate infringement exists at all or is highly ques-
tionable. This kind of claim could be expensive to prove, howev-
er, because it requires the small business defendant to make
extensive legal arguments about the invalidity of the patents.239

Sham litigation is also difficult to prove, and in high-tech
industries, it may be impossible. This is because patents tend
to be interchangeable and likely to overlap, making it difficult

236. See, e.g., United States v. Dunham Concrete Products, Inc., 501 F.2d
80 (5th Cir. 1974); Feld, supra note 142.
237. See supra Part I.C.3.
238. See supra Part I.D.3.
239. For example, the cost of simply engaging in inter partes review (an alter-
native way of challenging a patent’s validity once sued, which stays court
action when initiated) costs around $200,000 to $750,000. Kent et al., supra
note 175. Comparatively, defending a patent lawsuit costs millions. Id.
to establish that litigation is being pursued without an objective basis or in bad faith.\footnote{240} Combined with the fact that patents enjoy a statutory presumption of validity,\footnote{241} this makes a successful Handgards claim unlikely for most general cases of patent privateering.

Moreover, infringement actions of uncertain or dubious validity are protected conduct, even if the conduct has anticompetitive effects.\footnote{242} Current Noerr-Pennington immunity protects patent holders from antitrust liability so long as their patents and lawsuits are not invalid or clearly meritless.\footnote{243} This limitation applies to any antitrust theory. In In re Innovatio IP Ventures, LLC Patent Litigation, the court held that a PAE’s mass threat of assertion against thousands of small businesses, and eventual twenty-three lawsuits, was not objectively baseless and could be asserted despite the possibility that the PAE’s conduct had anticompetitive effects.\footnote{244} Thus, so long as a privateered PAE asserts patents against small business defendants with at least some validity, any Section 2 claim will probably fail under this case’s precedent.\footnote{245}

Some have argued that it should matter “little whether the privateer’s case against the target is frivolous or has exceptional merit.”\footnote{246} Because the Noerr-Pennington doctrine was created in a time before PAEs and patent privateering were commonplace, this argument has some persuasive weight. After all, when developing the Noerr-Pennington doctrine, the courts did not foresee or expect that the majority of patent litigation would turn into a game of indirect, secretive petitioning activity. And while the policy arguments favor protecting the right

\footnote{240}{Indeed, in the Handgards case itself, the patents involved were used in the manufacturing of plastic gloves and cannot fairly be described as high-tech. See Handgards, Inc. v. Ethicon, Inc., 743 F.2d 1282, 1285 (9th Cir. 1984). However, sham litigation has been successfully shown in high-tech industries such as pharmaceuticals. See, e.g., Rochester Drug Co-op. v. Braintree Labs., 712 F. Supp. 2d 308, 311–12 (D. Del. 2010).}

\footnote{241}{See 35 U.S.C § 282 (2014).}

\footnote{242}{E.g., Jurata & Patel, supra note 160, at 1276; Popofsky & Laufert, supra note 17, at 447.}

\footnote{243}{Id.}

\footnote{244}{921 F. Supp. 2d 903, 922 (N.D. Ill. 2013).}

\footnote{245}{See Ewing & Feldman, supra note 35, at 28 (“[I]t is extremely difficult to establish that assertion of a patent against a product is a sham, particularly given the high burden of proof that some courts have required in sham litigation cases. In sum, it is tremendously difficult to succeed in a private antitrust claim.”).}

\footnote{246}{See Ewing, supra note 11, at 80.}
for persons (whether natural or incorporeal) to petition the government, the antitrust implications seem to weigh heavily against applying the same protections to covert operatives suing on sponsors’ behalf.

If indeed a PAE is engaging in patent privateering, there should be no hesitation by a court to reject a Noerr-Pennington immunity argument. Although this immunity has been tied to whether a suit is meritless, the Handgards doctrine more broadly concerns whether a claim was brought for the relief sought, instead of primarily for the outcomes that result from the judicial process (such as a rival’s exiting the market under suit). Therefore, where patent privateering is employed against a small competitor, the likely motivations and outcomes that will result from such an action ought to in most cases overwhelmingly demand the conclusion that Noerr-Pennington immunity does not apply. This reasoning comports with what Handgards claims are designed to address: the use of litigation as a weapon in a concealed attempt to interfere with a competitor.247 Further, it ensures that courts, which are supposed to be a “defense against organized bullying,” do not “become the tools of organized bullying.”248

In summary, a Section 2 claim, whether Handgards or not, should be successful in theory if a sponsor’s identity is known and the privateering relationship can be sufficiently pleaded.

4. Section 7 Claims

Some commentators suggest that the most “natural mechanism” to challenge patent privateering is Section 7 of the Clayton Act, which prohibits acquisitions that may substantially lessen competition or create a monopoly.249 They argue that acquisitions of patents by privateered PAEs can harm competition by enhancing sponsors’ ability to “hinder or exclude rivals and thereby gain incremental market power” in much the same way as discussed in Parts II.A and II.B.1–3.250 Therefore, patent acquisitions by privateered PAEs could substantially lessen competition and may even create or maintain monopoly power for the sponsor.

Other commentators dispute the anticompetitive effects of patent transfers, arguing that patent litigation by privateered

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247. See Schwarz et al., supra note 129.
248. Duan, supra note 31 (emphasis omitted).
250. See id.
PAEs is no different than the exercise of the sponsor’s pre-existing market power. However, as asserted in Parts I.B.4 and II.B.2, patent privateering offers sponsors considerable benefits and negatively affects both targeted companies and consumers. Privateering also forecloses competition from small rivals in the market and in innovation. In addition, accumulation of patents by privateers and their covert nature incentivize infringement lawsuits implicating as many patents as possible. This approach to patent litigation renders a patent lawsuit by a privateer more formidable than what could have been brought by its sponsor—but also more likely to be considered sham.

Most commentators agree that acquisitions of patents by PAEs would probably violate Section 7 if the PAE aggregates all substitute patents for a certain kind of product or in a certain industry because this would enable a sponsor, through the PAE, to obtain and maintain monopoly power. The court found this in *Kobe v. Dempsey Pump*, in which Dempsey purchased key patents for hydraulic oil pumps, and no competitor could make a product without infringing on at least one of the patents. The court held that the underlying purpose of accumulating the patents was a violation of Section 7 and patent misuse. Similar reasoning could equally apply to patent privateers, which acquire patents in this way, especially if small businesses are targeted by privateers with comprehensive patent holdings.

Despite the likelihood of success in bringing these, there are certain downfalls to them. For one, a patent privateering relationship may not entail patent transfers or acquisitions. In addition, even if a sponsored PAE did acquire patents, it

253. *See, e.g.*, Devlin, *supra* note 66, at 775; *Jurata & Patel, supra* note 160, at 1265; *Popofsky & Laufert, supra* note 17, at 452; *see also* Hesse, *supra* note 221, at *9* (stating that there have been competitive concerns in this area, and some experts have suggested challenges under Section 7).
254. *See* Ewing, *supra* note 15, at 140–41 (citing *Kobe, Inc. v. Dempsey Pump Co.*, 198 F.2d 416 (10th Cir. 1952)).
255. *Id.; see supra* Part I.B.2.
might only acquire a specific set of patents needed to target a rival, eliminating the possibility that the Kobe precedence might apply. And furthermore, this claim suffers from the same practical difficulties in asserting the claim successfully in court, both in knowing enough about the relationship to meet pleading requirements and a small target’s likely inability to afford to defend itself.\textsuperscript{257}

5. Patent Misuse Defenses

It is unclear whether patent misuse could successfully be used to render a privateered patent unenforceable.\textsuperscript{258} This is primarily because patent misuse only applies to specific extensions of a patent’s grant of monopoly power,\textsuperscript{259} which is limited to the exclusive right to make certain inventions and forbids the use of the patent to “secure an exclusive right or limited monopoly . . . contrary to public policy.”\textsuperscript{260} Usually, unlawful extensions of a patent grant involve attempting to merely enforce the patent’s power beyond its terms.

However, to enable this defense in patent privateering scenarios, courts would need to accept the theory that privateered patent litigation is itself somehow an unlawful extension of the patent grant’s monopoly power. Arguably, patent privateering extends the utility of one or more patents beyond its limited scope by allowing sponsors to more effectively assert infringement of such patents than they could without the help of a PAE. Because small businesses are especially likely to respond to suits in ways that harm themselves and benefit large sponsors, patent privateers tend to be more effective at asserting patents against small businesses than large sponsors.\textsuperscript{261} In this way, the combination of the threat and the way the small business defendant will likely respond to it extends a patent’s power beyond its power to exclusively sell an invention. A patent owner’s rights, by definition, include the right to threaten to exclude others from practicing a patent, but patent privateering makes the threat of infringement unusually powerful—and perhaps even more credible or seemingly more meritorious than it actually is. This effect then enables the patent owner to

\textsuperscript{257} See infra Part II.B.6.
\textsuperscript{258} See Ewing, supra note 15, at 136–37.
\textsuperscript{259} Id. (citing Princo Corp. v. Int’l Trade Comm’n, 616 F.3d 1318, 1329 (Fed. Cir. 2010)).
\textsuperscript{261} See supra Part II.A.
secure a broader monopoly than is granted by the patent by its terms; by excluding a rival, for example, a patent owner might be able to secure monopoly over an entire industry or product market, let alone the specific inventions claimed by the patent. Jessica Rich, Director of the FTC’s Bureau of Consumer Protection, seems to endorse this understanding: “Patents can promote innovation, but a patent is not a license to engage in deception . . . . Small businesses . . . have the right to expect truthful communications . . . .” Without transparency, patent privateering may well be considered an unlawful extension of a patent’s limited monopoly power and a predatory litigation tactic.

Assuming that a court might also accept this argument, patent misuse will not protect a small business defendant from future suit because it is only a defense. It might, however, force the sponsor company to sue the small business in its own name to cure the misuse resulting from covert enforcement. Thus, the sponsor company would then be subject to the normal incentives and consequences of suing smaller rivals for patent infringement—a result that is overall better for society and more in line with the goals of patent and antitrust law.

6. The Problem of Concealed Sponsor Identity

Despite the analyses above, which argue that some antitrust theories could be successful depending on the circumstances, it is unlikely that a small business defendant can ever bring any of these theories. This is because the current patent system precludes, in most circumstances, a small business defendant from acquiring specific or circumstantial knowledge of a privateering arrangement. Patent ownership, transfers, and licensing agreements are usually secret. Since a small business defendant may never know who is sponsoring a PAE or if a PAE is sponsored at all, the small business defendant will be unable to plead an antitrust counterclaim or defense in the first place without being conclusory. This was, arguably,

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263. See, e.g., Ewing & Feldman, supra note 35, at 12.
264. If the sponsor’s identity is not secret, and the privateering arrangement is known, then there is less need to use antitrust law to address the covert effects of patent privateering.
265. This problem is not unique to patent privateering; for example, in Bell Atlantic v. Twombly, a landmark Supreme Court decision, the plaintiffs suc-
partially the problem in Intellectual Ventures.\footnote{266} Further, this inability may incentivize suits and make a market less attractive to potential new entrants, foreclosing future competition.

For Section 1 claims, this means that the small business defendant will not know if there is an agreement between competitors or a sponsor and PAE. For Section 2 claims, the concealed identity of the sponsor presents similar difficulties, in that a small business defendant will be unable to determine which competitor is primarily benefiting from the suspected patent privateering arrangement. Likewise, for Section 7 claims, a patent seller will be unknown, so that a claim against the indirectly benefiting sponsor-seller cannot be asserted. Similarly, patent misuse defenses will be seen as merely speculative unless the small business defendant can pinpoint the sponsor company. Lack of knowledge about the identity of a sponsor eliminates the ability for defendants to retaliate with not only patent infringement claims, but also other types of claims as well, including those grounded in antitrust law.

There are further practical difficulties in determining the identity of a sponsor. First, ownership is not required in order to establish a privateering arrangement.\footnote{267} Second, PAEs may be established in venues with inhospitable piercing law, making it harder to pierce a corporate veil and identify a sponsor.\footnote{268} Third, many PAEs create further shell companies to assert patents, which would complicate veil piercing.\footnote{269} These layers also increase the likelihood a PAE and its sponsor remain anonymous in future suits, even if one of their many shell companies’ veils are pierced and disclosed at trial.

Even if a small business defendant does have knowledge of a privateering relationship and could successfully assert an antitrust counterclaim, small businesses must still choose to do so. The analysis in Part II.A shows that most small businesses cannot litigate in the first place, finding it both necessary and prudent to settle due to their limited operational and financial


\footnote{267. \textit{See supra} Part I.B.3.}

\footnote{268. \textit{Patent Litigation Practice Note, supra} note 77.}

\footnote{269. \textit{See} Morton & Shapiro, \textit{supra} note 186, at 476. For example, Intellectual Ventures reportedly has more than 1,300 shell corporations with which to litigate patents, potentially in multiple layers. \textit{Id}.}
means. PAE defenders have argued that this effect of PAE patent litigation is a USPTO and litigation problem, not an antitrust one. While the way that small businesses respond to privateered litigation threats may be a symptom of litigation, the purposes of the privateering arrangement are of the kind antitrust law is designed to prevent.

In summary, commentators have considered antitrust law as a potential solution to address patent privateering against all businesses. As a result, most agree that current antitrust law might only stop patent privateering in rare circumstances—perhaps when small businesses are targets. In addition, the analysis above shows that there are several practical reasons for why, even if theoretically antitrust law is a solution, such claims and defenses would likely fail to make it past the pleading stage of litigation. Technicalities and Noerr-Pennington immunity may also restrict the ability for current antitrust law to bar patent privateering outright. And even if antitrust law may theoretically already provide a solution for small businesses sued by patent privateers, the realities of the situation make it either too difficult or too costly to pursue the solution. Part III provides a solution to all these problems.

III. REBUTTABLE PRESUMPTIONS PROVIDE A SOLUTION

In the past several years, little has been done to address patent privateering. This Part provides a comprehensive solution to the anticompetitive effects of patent privateering against small businesses—the only kind of businesses substantially affected by privateering's patent litigation activities. Section A showcases this solution in the form of rebuttable pre-

See Wright & Ginsburg, supra note 213, at 525.

See supra Part I.C, which notes that the goals of antitrust law are to promote and protect fair competition. As Senator Sherman, the namesake of the Sherman Act, once famously stated:

If we will not endure a king as a political power we should not endure a king over the production, transportation, and sale of any of the necessaries of life. If we would not submit to an emperor we should not submit to an autocrat of trade, with power to prevent competition and to fix the prices of any commodity.

BILLS AND DEBATES IN CONGRESS RELATING TO TRUSTS: FIFTIETH CONGRESS TO FIFTY-SEVENTH CONGRESS 95 (James A. Finch ed., 1902), https://play.google.com/store/books/details?id=OsssAAAAYAAJ&rdid=book-OsssAAAAYA AJ&rdot=1. Patent privateering, if left unchecked, would enable such a king or emperor within a specific industry, without requiring it to compete for its throne.
summation to be applied by courts. Section B compares this solution to other proposals recommended by scholars and reasons that only the solution proposed in Section A can adequately address the patent privateering. Lastly, Section C addresses the policy implications of the solution proposed in Section A in the realms of antitrust law, patent law, and Noerr-Pennington immunity.

A. THE PROPOSAL FOR A SECTION 2 ANTITRUST VIOLATION presumption

As the analysis of Section 2 antitrust liability in Parts II.B.2–3 shows, in most cases patent privateering against small businesses constitutes an antitrust violation. Other kinds of antitrust liability are less likely to be successful and more attenuated. Section 2 antitrust liability can address every patent privateering activity, however. Therefore, a presumption of Section 2 liability would provide the most protection without establishing a potentially too-sweeping presumption (say, of any kind of Sherman or Clayton Act liability).

Because patent privateering has significantly anticompetitive effects when targeted against small businesses (but not when against large ones), a rebuttable presumption of antitrust liability must be carefully tailored to protect small businesses. In contexts involving patent privateering against a small business, proving circumstantial anticompetitive effects should not be a major difficulty since, on the whole, the analysis in Part II.A indicates that patent privateering as a nationwide practice harms competition and consumers. However, the ability to prove that a privateering relationship exists is a formidable hurdle.273 What is needed is a presumption structured in such a way to remove this hurdle, while also allowing for the assertion of good faith patent litigation suits; the presumption should not not

272. Section 1 claims are restricted because they only apply to agreements, trusts, and other combinations, which can easily be circumvented by transfers of patents. Applying the presumption to Section 7 claims could also presume too much; not every transfer of patents to a PAE leads to patent privateering. Patent misuse does not provide small business defendants with more than temporary relief—though the relief would entail elimination of the privateering arrangement. But since patent misuse is a defense, it has no teeth, unlike Section 1, 2, and 7 claims. Further, its doctrinal foundation is already questioned. Section 2 is therefore best because it has a statutory foundation and provides greater disincentives to sponsors to litigate against small businesses through PAEs; violators would be subject to treble damages.

be overly broad, nor should it be too narrow. Therefore, a solution must presume that any circumstances suggesting a strong likelihood of patent privateering against a small business is unlawful as a violation of Section 2.\(^{274}\)

Courts, legislatures, and/or regulators should adopt a rebuttable presumption that a patent infringement lawsuit violates Section 2 as either monopolization, an attempt to monopolize or maintain monopoly power, or a conspiracy to monopolize or maintain monopoly power in circumstances that are all but certain to indicate a privateering relationship. This presumption would only apply when small businesses are being sued by a PAE, which does not practice the patents in suit. Small businesses could be defined according to the Small Business Association’s size standards, per industry.\(^{275}\) In cases against these so-defined small businesses, the likelihood of patent privateering and the risk of harm to competition is great enough to justify this presumption.

However, a PAE plaintiff should be allowed and entitled to show that it is not a patent privateer. By providing easy-to-obtain, basic factual evidence, good faith plaintiffs should be able to rebut this presumption with only a slight burden. Ideally, rebutting evidence should relate to indicia of non-privateering relationships. For example, a plaintiff could show one of two “outs”: either that (1) the plaintiff is not a PAE, or (2) the plaintiff is a PAE, but has no material ties to a competitor with monopoly power or close to market power in the market for the patent(s) being asserted. A PAE would be defined as any person who is not an original inventor, a company that substantially practices the patent, a university, or a technology

\(^{274}\) A presumption of unlawfulness need not be exclusive to Section 2. Any number of business torts or consumer protection regimes may also be viable alternatives. This Note, however, considers only antitrust law due to the powerful anticompetitive effects in play and the danger of monopolization. Both of these negative effects are primarily addressed by antitrust law—though, other doctrines may also be applicable.

\(^{275}\) See U.S. SMALL BUS. ASS’N, TABLE OF SMALL BUSINESS SIZE STANDARDS MATCHED TO NORTH AMERICAN INDUSTRY CLASSIFICATION SYSTEM CODES (2016), https://www.sba.gov/sites/default/files/files/Size_Standards_Table.pdf. This per-industry classification takes into account the relative size of an industry and its market participants. A small business could also be defined as any business with less than $100M in revenue each year. Chien, supra note 21, at 464, 475, showed that companies making less than $100M per year constituted the majority of defendants in PAE patent infringement lawsuits. Firms making more than $100M per year were also less affected by such lawsuits. Id. Therefore, the small businesses affected most by patent privateering probably make less than $100M in revenue per year.
transfer organization solely purposed on commercializing technology developed by institutions of higher education.\textsuperscript{276} In regard to the second out, most non-PAE operating companies could easily prove that they substantially practice their patents, so this presumption would have a \textit{de minimis} effect on them. Additionally, a presumption structured with these outs would not prevent universities from protecting their patent rights or the patent rights of their researchers. Lastly, inventors would be protected due to their non-inclusion as PAEs or outsourcing to technology transfer organizations. These kinds of PAE sponsors would have no competitive reason for refusing to disclose their identity. It may even be to the PAE’s advantage to make such disclosure, as the sponsor’s identity may engender sympathy or respect from fact-finders.

If, however, the plaintiff is a PAE (the first out), it would have to prove that it has no ties to any competitors—especially large competitors—with market power or dangerously close to market power in the market for the patent(s) being asserted. Such evidence would be harder to provide, but not unduly burdensome. This would require the PAE plaintiff to prove by clear and convincing evidence\textsuperscript{277} that (1) there is no dominant (or close to dominant) competitor\textsuperscript{278} practicing the patent, whether licensed to or from, and (2) there is no formal or informal agreement or arrangement in which any third parties to the lawsuit have any form of economic or non-economic interest in the outcome of the infringement lawsuit or use of the patents being asserted, including subsidiary, intermediary, and ultimate owners, of any percentage, of the PAE, itself.\textsuperscript{279} Framing the exclusion this broadly would ensure that no conceivable form of privateering relationship exists between the PAE and any dominant (or near dominant) competitors in the market.

\textsuperscript{276} This list is borrowed from the SHIELD Act, H.R. 845, 113th Cong. § 2 (b), (d) (2013).

\textsuperscript{277} This standard was chosen due to the harmful effects of patent privateering against small businesses and the need to provide small business defendants with hope that the rebuttable presumption may save them from legal costs. Courts may find, however, that the preponderance of the evidence standard is more appropriate, given the potential First Amendment implications.

\textsuperscript{278} A large competitor would be whatever is not a small competitor (those companies making over $100M per year).

\textsuperscript{279} Essentially, this provision relates to the various ways in which a privateering relationship may be structured, in order to preclude any possible formal privateering arrangement from rebutting the presumption. See supra Part I.B.3 for an overview of these possible arrangements.
there is no such relationship, then antitrust concerns are alleviated, and the suit is likely one brought by a non-privateered PAE.

Lastly, the presumption should be rebutted in the event that Section 2 liability can be otherwise disclaimed or disproven by the PAE-plaintiff.

If enforced, this rebuttable presumption would prevent patent privateers from suing small businesses for patent infringement and force dominant or nearly dominant sponsors to sue in their own names instead. As a result, the incentives and consequences of traditional patent litigation would inure to both plaintiffs and defendants. The anticompetitive effects of patent privateering would be lifted or at least extremely limited. In addition, the frequency of patent litigation would likely decrease, as large sponsors would no longer be able to avoid the various costs to them that are otherwise avoided through patent privateering. This would likely have public benefits, such as reducing the burden and congestion on the public court system and increasing consumer and business faith in the justice system as a whole.

B. A PREJUMPTION IS MORE EFFECTIVE THAN OTHER PROPOSALS

The presumption sketched out in Section A is likely to be more effective than other solutions currently proposed. Recall that most commentators have proposed changes to the patent system in order to address patent privateering.280 One set of proposals in this area requires parties to a patent infringement lawsuit to list all persons with an interest in the outcome of the case.281 This, the proponents argue, would help alleviate the problem of concealed sponsors by providing defendants with at least some circumstantial evidence of a possible privateering relationship. However, these reforms would have to be worded to account for both ownership and licensing interests to capture the full range of formal patent privateering arrangements, ownership, license, or otherwise.282 The presumption envisioned

280. See supra Part I.B.5.
above does this; and while such language could be adopted to provide for this solution, a disclosure mechanism would still present likely difficulties that are not encountered with a presumption.

For one, the timing of such disclosures would have to be early, so that small business defendants could quickly assess whether to defend or not. Timing of other important early disclosures, such as claim construction in *Markman* hearings, continues to be subject to judicial discretion and great variability. Further, the creation of a disclosure requirement, even if properly timed, would also require the courts to recognize the antitrust liability arguments proposed in Part II.A, which underlie the presumption formulated above in Section A. Therefore, a disclosure requirement would require more moving parts than a presumption.

Lastly, a disclosure requirement would likely not have the same preclusive and deterrent effect of a presumption. A patent privateer might still sue a small business target hoping the target will respond in a way desirable to the privateer’s sponsor. The privateer could take this chance and may never need to disclose its identity at all. With the proposed presumption, the privateer would bear the initial onus to prove its non-anticompetitive nature to the court before proceeding against the small business target. Until proven, a small business would not have much risk and may even respond to see whether the good faith nature of the suit is proven. Due to the ways in which small businesses respond to threats of patent litigation, this early burden-switch is desirable and necessary to prevent patent privateering and its effects. A disclosure requirement would not accomplish such a goal.

Other reforms, most notably the SHIELD Act, aim to counteract the incentives for PAEs to litigate by imposing fee-

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284. *See supra Part II.A.*

285. It may even face sanctions under FED. R. CIV. P. 11 if it cannot prove this right away—an adequate deterrent.

286. They usually respond in ways that are anticompetitive and enable monopoly for large sponsors. *See supra Part II.A.*
shifting mechanisms.\textsuperscript{287} However, these reforms cannot fully offset the competitive advantages of patent privateering when unleashed against small businesses because most small rivals will choose to settle before even defending themselves.\textsuperscript{288} If the analysis in Part II is sound, small businesses should choose not to settle; antitrust law already provides for treble damages, fee-shifting, and criminal liability.\textsuperscript{289} But the evidence shows the opposite. Therefore, a proposal like the SHIELD Act would likely have no practical effect on the incidence of patent privateering. Even if it provided another avenue of recovering costs, small businesses are unlikely to be willing to front the bill for potentially several years of litigation.

Lastly, a blanket prohibition against the use of PAEs in patent litigation would probably not curb patent privateering.\textsuperscript{290} First, it would be difficult for courts to determine if a company truly is a PAE or not, given the secretiveness of privateering arrangements. A court could employ the same criteria as listed in the proposed presumption in Section A, but if it did so, it might as well simply employ the presumption anyway. Second, benign uses of PAEs for litigation by inventors, universities, and small firms would be unjustifiably enjoined.\textsuperscript{291} A blanket prohibition on privateering would thus be overly broad. Third, prohibition would still not solve the evidentiary difficulty of discovering the existence of a privateering arrangement or the identity of a sponsor.\textsuperscript{292} Fourth, such a prohibition may violate Noerr-Pennington immunity, established by the First Amendment. A presumption, on the other hand, succumbs to none of these difficulties.\textsuperscript{293}

\begin{itemize}
\item \textsuperscript{288} See Chien, supra note 21, at 485 ("[O]ne problem with a number of these reforms is that they don’t directly or necessarily help those against whom litigation is threatened, but not brought.").
\item \textsuperscript{289} See 15 U.S.C. § 1 (2012).
\item \textsuperscript{290} Cf. Wright & Ginsburg, supra note 213, at 505–06 (noting Professor Tim Wu’s proposal to exterminate all PAEs).
\item \textsuperscript{292} See Ewing, supra note 11, at 80.
\item \textsuperscript{293} See infra Part III.C.2 for a discussion of the First Amendment issue.
\end{itemize}
A rebuttable presumption is not an uncommon mechanism in antitrust law. Therefore, it is more likely that courts or legislative bodies would be comfortable in employing such a tool. Federal courts have adopted a rebuttable presumption in at least one instance involving patent litigation already. Given the precedents already set by the federal courts and the fact that this solution would likely be most effective at deterring patent privateering, it should be adopted.

C. POLICY AND CONSTITUTIONAL CONSIDERATIONS

In addition to comparing the presumption laid out in Section A to other proposals, there are several policy considerations that must be made. This Subsection explores two primary policy considerations: (1) the policies underlying both antitrust and patent law, and (2) First Amendment, Noerr-Pennington protections.

1. Antitrust and Patent Law

Recall that antitrust law is purposed on prohibiting competitor conduct that unjustifiably forecloses and harms consumers. One way in which antitrust accomplishes this is by prohibiting monopolies. Recall also that patent law is purposed on promoting innovation by enticing inventors with the ability to hold a limited monopoly over the use of their inventions. Patent law, too, encourages healthy competition by incentivizing competitors to constantly invent new innovations that are useful to society.

A presumption in favor of antitrust liability when a patent monopoly is used to attain monopolies outside of the patent grant and injure rivals is supported by both antitrust and patent law policy. It is easy enough to see why antitrust law would favor this presumption given the harmful effects that flow from patent privateering. Indeed, foreign regulators al-

295. See Image Technical Servs., Inc. v. Eastman Kodak Co., 125 F.3d 1195, 1218 (9th Cir. 1997).
296. See supra Part I.C; see also supra note 271.
297. See supra Part I.A.
298. See supra Part II.A.2.
ready recognize this fact; the Korea Fair Trade Commission (KFTC), for example, recently established that patent privateering is “abusive or unreasonable.”299 The presumption envisioned in Section A would comport with this policy and with the public policy of the antitrust laws: to ensure fair competition between all businesses—not competition based on intimidation and availability of financial resources for litigation.

Antitrust and patent policy further favors stopping destructive patent privateering against small businesses because small businesses serve extremely important roles in the U.S. economy and innovation.300 Disincentivizing covert patent litigation against small businesses also comports with the public goal to “foster . . . small business growth and development.”301

Although it would appear that a patent holder’s rights to exclude others from using an invention through litigation could be inhibited by the presumption advanced in Section A, the opposite is true. Rather, the presumption set forth in Section A only prevents a large sponsor from using PAEs to litigate patent rights without a public connection to the sponsor.

Preventing patent privateering would also not detract from the incentive that a patent monopoly provides inventors, unless those inventors are incentivized to apply for patents in order to covertly wield a club over a rival’s head in the hopes of excluding them from the market over the long-term. Certainly, such a “right” was not intended to be part of the incentive for an inventor. Given that patent law intends to promote progress through incentives and competition, the incentives cannot logically include such anti-competitive and regressive ends. The rebuttable presumption proposed in Section A would thus eliminate the incentive to use a patent in a way that expands beyond the rights of a patent’s limited monopoly.

2. First Amendment

Recall that Noerr-Pennington immunity provides that persons may petition the government through litigation and that

300. See Liu, supra note 179, at 499–500.
301. Id. at 500.
the First Amendment protects this activity.\textsuperscript{302} However, as has
been established in the \textit{Handgards} cases, no person may peti-
tion the government in meritless ways as a strategy to harm
competitors and consumers.\textsuperscript{303} Usually, this is found when a
lawsuit is focused not on the outcome of the case on the merits,
but instead on the anticompetitive results of the judicial pro-
cess (sham litigation).

The presumption in Section A may be said to stand as a
bar—albeit an extremely small one—to petitioning the govern-
ment. However, it should be thought of as barring secretive and
vindicative petitioning conduct. The presumption’s narrow tai-
loring only applies to manners of speech (patent privateering)
that significantly bear on important societal and governmental
interests. As the Supreme Court has consistently stated, the
right to freedom of speech (and any constitutional right) is not
absolute; for example, restrictions have been justified in com-
mercial speech cases where, generally speaking, restrictions
are content neutral, narrowly tailored, serve significant gov-
ernmental interests, and leave room for alternative channels of
communication.\textsuperscript{304} The \textit{Handgards} cases and \textit{Noerr-Pennington}
doctrine reflects this same understanding by prohibiting merit-
less litigation.

The proposed presumption would survive a First Amend-
ment challenge because it is content neutral, narrowly tailored
to patent privateering against small competitors (which has
been shown to be very anti-competitive), imposes a minimal
burden, serves the interests of promoting and protecting fair
competition and consumers, and does not affect the ability of
large sponsors to sue small rivals for patent infringement in
their own name (an alternative). And since covert patent priva-
teeering can only have anticompetitive purposes underlying it, it
is a sham and thus a recognized and appropriate exception to
\textit{Noerr-Pennington} immunity.

U.S. 127, 138–40 (1961); Ewing, \textit{supra} note 15, at 139; Roszkowski & Bru-
baker, \textit{supra} note 147, at 416.

\textsuperscript{303} See \textit{Handgards}, Inc. v. Ethicon, Inc., 601 F.2d 986, 993 (9th Cir. 1979);
\textit{see also} City of Columbia v. Omni Outdoor Advert., Inc., 499 U.S. 365, 380

\textsuperscript{304} See Sorrell v. IMS Health Inc., 131 S. Ct. 2653 (2011); Central Hudson
of Rockford, 408 U.S. 104 (1972).
CONCLUSION

Policy-makers have become increasingly wary of PAE patent acquisition and assertion activities. Through licensing or transfers of patents, sponsor companies can direct—or privateer—PAEs to sue competitors for patent infringement in an effort to raise rivals’ costs, hinder rivals’ ability to compete, and forestall and foreclose competition from existing and potential rivals. These anticompetitive effects inflate sponsor companies’ market power, at the expense of competition, regulation, innovation, and consumer welfare. When patent privateering is targeted against small businesses, these effects are exacerbated. Small rivals are uniquely and disproportionately affected by patent privateering and are more likely to succumb to its anticompetitive effects.

Most solutions proposed to address this problem involve increasing transparency, cost-shifting or sanctioning, and lifting or piercing the corporate veil concealing a sponsor company’s identity. There are ways for sponsors to circumvent these reforms, however, and disclosure mechanisms do not adequately address mismatched incentives and privateering behavior. Cost-shifting and blanket prohibitions succumb to similar weaknesses. This Note proposes an alternative solution, in the form of a rebuttable presumption of Section 2 antitrust liability. This presumption would operate when small businesses are sued by PAEs for patent infringement and would deter patent privateering against small businesses. As a result, large competitors could no longer employ covert patent litigation as a way to foreclose competition among small rivals and new innovators in the marketplace, thus protecting and promoting a competitive American economy.