February 25, 2019

The Honorable William Barr  
United States Attorney General  
Department of Justice  
950 Pennsylvania Avenue, NW  
Washington, DC 20530-0001

The Honorable Wilbur Ross  
Secretary of Commerce  
U.S. Department of Commerce  
1401 Constitution Ave., NW  
Washington, District of Columbia 20230

Dear Attorney General Barr and Secretary Ross,

For over two hundred years, reliable and effective patent rights have facilitated dynamic efficiency and growth in innovation markets in the U.S. economy, as evidenced in the smartphone industry and the mobile telecommunications revolution of the past two decades.

In a comment submitted to the Federal Trade Commission on December 21, 2018 in response to its Hearings on Innovation and Intellectual Property Policy, I joined with 17 other law professors, economists, and former government officials in explaining how evidence-based policy-making by competition law authorities is necessary to ensure balanced, equal protection of the interests of innovators, implementers, and consumers. This comment details how reliable and effective patent rights have produced dynamic innovation, competition, and quality-controlled price reductions for consumers in the smartphone industry. It explains how academic theories of “patent holdup” and “royalty stacking” by owners of standard essential patents are unconfirmed by more than a decade of empirical studies; in fact, “patent holdup” theory is contradicted by the evidence of real-world market conditions in the smartphone industry. The comment includes a lengthy bibliography of the data-driven, rigorous research on the issues at the intersection of patent law and competition law.

This evidence surveyed in our December 21, 2018 FTC comment underscores the Trump Administration’s insistence in its trade policies that the competitive advantage of U.S. companies in developing standardized technologies like 5G is essential to the ongoing success of the U.S. innovation economy. This competitive advantage is vital to U.S. national security interests as well.

I attach our December 21, 2018 FTC comment to ensure that officials responsible for developing patent policy and enforcing the competition laws are aware of this research on the vital role of reliable and effective patent rights in promoting dynamic efficiency, innovation markets, and consumer welfare in the smartphone industry and in other sectors of the U.S. innovation economy.

Sincerely,

Adam Mossoff
cc:

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The Honorable Andrei Iancu
Under Secretary of Commerce for Intellectual Property
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The Honorable Lindsey Graham
Chairman
Committee on the Judiciary
United States Senate
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The Honorable Dianne Feinstein
Ranking Member
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The Honorable Jerry Nadler
Chairman
Committee on the Judiciary
U.S. House of Representatives
Washington, DC  20515

The Honorable Doug Collins
Ranking Member
Committee on the Judiciary
U.S. House of Representatives
Washington, DC  20515
December 21, 2018

Via Electronic Submission

Mr. Donald S. Clark
Secretary of the Commission
Federal Trade Commission
600 Pennsylvania Avenue NW
Washington, DC 20580

Re: Competition and Consumer Protection in the 21st Century Hearings—Public Comments Following Hearing #4 on Innovation and Intellectual Property Policy

Dear Secretary Clark,

As legal academics, economists, and former government officials who are experts in antitrust law and intellectual property law, we respectfully submit these comments and an Appendix in response to the request for public comments following the Federal Trade Commission’s Hearings on Innovation and Intellectual Property Policy held October 23-24, 2018, as part of the FTC’s Hearings on Competition and Consumer Protection in the 21st Century.

We support evidence-based policy-making by the FTC concerning all aspects of technological innovation, intellectual property (IP) rights, and the relationship between IP rights and innovation markets. It is imperative that the FTC ground any policy statements, investigations, or enforcement actions, not on academic theories about how IP rights might potentially be misused in stylized theoretical models, but on persuasive evidence of actual consumer harm from anti-competitive practices in real-world markets. Otherwise, regulatory overreach could undermine the economic incentives and resulting stream of innovative products and services that consumers enjoy in markets in which reliable and effective IP rights attract the private capital necessary to fund the high costs of R&D and the commercialization process.

Few economists and policymakers would question that reliable and effective property rights are a necessary predicate for supporting investment in conventional physical-goods markets. Logic holds that this economic principle applies for the innovators, investors, and entrepreneurs in the information technology and life sciences markets at the core of the US innovation economy.

Given reliable and effective IP rights, multiple empirical studies support the proposition that firms are more willing to incur substantial costs and bear significant risks in undertaking long-term R&D. Two well-known examples are the approximately $2.6 billion dollars required to bring a new drug to market or the billions in dollars required to develop new communications technologies like 5G. These and other long-term R&D investments occur in commercial environments in which courts and administrative agencies secure reliable and effective IP rights.
In recent years, antitrust agencies have sometimes taken policy actions in IP-intensive markets that overlook this fundamental connection between secure property rights, investment incentives, R&D, and commercialization activities. These regulatory actions have been based on academic theories and anecdotal reports that have not been put to thoroughgoing, rigorous empirical tests.

To illustrate the risks of making policy without firm empirical support, consider the smartphone industry. For over a decade, theoretical predictions have been made that comparatively high numbers of patents covering technologies used in a single multi-component consumer product—a smartphone—would create “patent thickets,” “royalty stacking,” and “patent holdup” that would increase prices, constrain output, and stunt innovation. Based on these conjectures, antitrust agencies around the world have issued policy statements, undertaken enforcement actions, and imposed billions of dollars in fines—often directed at the firms that had pioneered the fundamental technologies behind wireless communications. Yet those proposing this testable hypothesis never actually tested it. Empirical researchers who subsequently did so found little to no evidence of “patent holdup.” Contrary to theory, real-world market conditions in the smartphone industry are characterized by constant lower quality-adjusted prices, robust market entry by new producers, and continuously increasing performance standards. Consumers in the US and around the globe have benefited from the virtuous feedback effect between secure property rights in new technologies, strong investment flows, and robust R&D output. The evidentiary burden surely rests on those who propose taking policy actions that would erode the property-rights foundation behind this technological and economic success story.

The smartphone industry is just one of multiple innovation markets that exhibit a positive relationship between reliable and effective patent rights, increased innovation, and economic growth. This evidence demonstrates a close relationship in the biopharmaceutical, medical device and certain information technology markets between patent protection and startups’ ability to secure financing for R&D and to undertake the costly commercial task of translating R&D into new products and services for consumers. This relationship is especially powerful in the case of startups that are often the source of breakthrough innovation. One empirical study shows that a startup with a patent more than doubles its chances of obtaining venture capital funding compared to a startup without a patent. Without a secure IP portfolio, venture capital and other investors will decline to support startups that often have few other legal or commercial mechanisms by which to secure their products and services against imitation by larger incumbents. For similar reasons, larger firms that specialize in R&D but do not have downstream production and distribution capacities require a secure IP portfolio to support a licensing infrastructure that generates the returns necessary to fund continued R&D that ultimately benefits downstream companies in the value chain and end-users in the marketplace.

Antitrust policy has long followed an error-cost approach that takes into account the relative costs associated with overenforcement (false positive errors) and underenforcement (false negative errors) of the antitrust laws. Consistent with this approach, the FTC’s policymaking and enforcement actions in innovation markets should be based on valid empirical evidence that makes it possible to weigh the likely costs and benefits of the agency’s actions.
This concern is especially relevant in evaluating the likelihood of consumer harm and the impact on innovation from patent infringement litigation. Like any form of civil litigation, patent litigation can be used for either legitimate or opportunistic purposes. Based on a limited body of evidence that suffers from substantial methodological shortcomings, antitrust agencies have issued statements and taken actions supporting blanket denials of the availability of injunctive relief for all patent owners who primarily license their technologies (“non-practicing entities”).

A broader empirical literature has looked more closely with rigorous analysis and uncovered a far more nuanced market and legal reality. First, no empirical study has demonstrated that patent owners’ requests for injunctive relief after findings of defendants’ infringement of their property rights have resulted systematically either in consumer harm or in slowing down the pace of technological innovation. Second, researchers have found that the “non-practicing entities” or “patent assertion entities” rubric encompasses a large number of business models that generate social gains by providing licensing and other mechanisms for undercapitalized individual inventors, startups, small firms, and universities. These innovators lack the commercial means to extract revenue from R&D that can generate valuable new products and services for consumers. Painting all of these entities with the same rhetorical broad brush threatens to unravel a rich ecosystem of inventors, startups, and entrepreneurs that rely on the legal backstop of injunctive relief to support markets in intellectual assets. Abusive litigation practices by a limited number of patent owners could and should be targeted surgically through fee-shifting and other standard tools available in all civil litigation. Again, regulatory intervention without a firm evidentiary basis runs the risk of harming consumer welfare by undermining the reliable and effective patent rights on which innovators, venture capitalists, startups, and other market participants rely in creating and expanding the innovation markets that benefit everyone.

In support, we attach an Appendix of articles that provide rigorous empirical studies and evidence-based analyses of IP-driven innovation markets, patent licensing, and patent litigation.

In conclusion, the FTC should continue to develop policies and undertake enforcement actions only with evidence of proven harms to consumers and with proper consideration of the costs in undermining reliable and effective IP rights that have consumer-welfare enhancing effects in the US innovation economy. A balanced consideration of the evidence on both harms and benefits is necessary to ensure balanced protection of innovators and consumers. We are confident that a commitment by the FTC to a program of evidence-based policy-making will lead to a vibrant, dynamic innovation economy supported by a secure foundation of IP rights that will continue to benefit consumers in the US and around the world.

Sincerely,

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The Honorable Douglas H. Ginsburg
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Federal Trade Commission
APPENDIX


Jonathan H. Ashtor, Does Patented Information Promote Progress? (June 22, 2017),
https://ssrn.com/abstract=2857697


https://www.researchgate.net/publication/274522003_Incentive_effects_from_different_approaches_to_holdup_mitigation_surrounding_patent Remedies_and_standard-setting_organizations

https://ssrn.com/abstract=1143602


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