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The valuation of patent-trademark pairing as IP strategy: evidence from the USPTO

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Disclosure statement

No potential conflict of interest was reported by the author.

Supplementary material

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Notes

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² With respect to the prosecution costs at the USPTO from start until patent issue, in 2000 Lemley ([2001](#)) estimated a lower bound of \$ 10 thousand and upper bound \$ 30 thousand in current values, which in terms of 2015 prices amount to \$ 13 thousand and \$ 40 thousand respectively. In 2015, the USPTO issued about 300 thousand utility patents, which means an overall range in prosecution costs of between \$ 4 and 12 billion.

³ In the marketing literature, brand equity encompasses not only its value but also the brand meaning and strength (For a fuller discussion on the concept of brand equity see the survey by Srinivasan, Hsu, and Fournier [2012](#)).

⁴ For recent surveys of the IP signaling theory in the context of entrepreneurial financing see Gambardella ([2013](#)), Hall ([2019](#)) and Hall and Harhoff ([2012](#)).

⁵ Furthermore, it has been found that patenting attracts financing from prominent VCs who contribute with a larger share of non-financial capital (Hsu and Ziedonis [2013](#)). Although patents are valuable signals for new investors but not old ones (Conti, Thursby, and Thursby [2013](#)), only patents held by the inventor prior to the first round of financing have the biggest signaling value (Hoenen et al. [2014](#)), and the intensity of the signal lessens with the number of patents (Mann and Sager [2007](#)).

⁶ An analysis of the most valuable patents in the US market shows that the most known and most valuable patents are those that are issued to the inventor, have a high quality, are issued to a company, and are issued to a company that is in the IP Close

⁷ See La... on different

⁸ The... trademark... research could... included... tional class, ... however, ... incurred ... ngs. Hence, ... 000.

⁹ Another criterion for approval of the registration of a mark is that the application should not be deceptive and contrary to law or morality.

¹⁰ It is noteworthy that the assumption of monotonicity of non-increasing benefits R - given the non-decreasing fee costs C - is sufficient but not necessary for the validity of [Equation \(2\)](#), which is required to hold solely in the neighbourhood of the optimal renewal age. In particular, there is a time \bar{T} for which $R_{tj} - C_{tj} > 0$ for $t < \bar{T}$ and $R_{tj} - C_{tj} < 0$ for $t > \bar{T}$, where \bar{T} is the last age which the patentee pays the renewal fees. Hence, the net revenues may be increasing in some periods before \bar{T} .

¹¹ See Lanjouw ([1998](#)) for Germany, Schankerman ([1998](#)) for France, Deng ([2007](#)) for Belgium and Austria, and Grönqvist ([2009](#)) for Finland.

¹² At the USPTO, the renewal fees for small patenting entities are halved, and under strict conditions patent expiration due to unpaid fees could be invalidated. For fuller details see Moore ([2005](#)).

¹³ Limiting the analysis to these European economies does not hamper the sample coverage at the European level because they represent a sufficiently large market to attract the lion's share of the EPC designation and renewal decisions. With respect to the above cohorts, around 83.8%, 94.4%, and 87.3% of European patents have designations in France, Germany, and the United Kingdom, respectively (Eurostat [2016](#)).

Furthermore, the United Kingdom is the largest EPC member state in the period in the sample (Eurostat [2016](#)).

¹⁴ This year is the year of the legislative change in the patent law.

¹⁵ The economic growth rate is defined as the percentage change in GDP deflator.

¹⁶ As a result, the patent renewal fees are higher levels than in the past.

¹⁷ Given the fact that the patent renewal fees do not think that limiting the patent renewal fees is a serious concern.

¹⁸ The data



¹⁹ The Maintenance Fee Events File is accessible at www.google.com/googlebooks/uspto-patents-maintenance-fees.html .

²⁰ A complete list of sources for the historical fee cost schedules is available upon request to the author.

²¹ While strict equivalents are patent filings including exactly the same priorities or combination of priorities, an INPADOC patent family constitutes a self-contained and consolidated group of priority links including any direct or indirect priority link. For more information on the patent family definition see Martinez ([2011](#)).

²² See Lanham Act § 2.

²³ See Lanham Act § 1(a).

²⁴ At the USPTO, a prior application or registration in a foreign jurisdiction or under the Madrid Protocol system could serve as the legal basis for filing a trademark application, without the requirement of declaration of ‘use in commerce’ as of the filing date. Foreign priorities used as legal basis at filing are a relatively rare event in the population of the U.S. trademark filing (For more information see Graham et al. [2013](#)).

²⁵ See Lanham Act § 1(b, d).

²⁶ For a ✕ marks and federally

²⁷ This d erse of U.S. federal r d priority, described , and other procedu

²⁸ D  7% of the registr

²⁹ An ex dology and related i presented in Appendi

³⁰ For a

³⁹ Twelve dummies of the year-technology interaction effects computed at the two digit classification could not be identified, and hence they were aggregated to the left-out category in the regression analysis.

⁴⁰ Although according to the Trademark Manual of Examining Procedure (TMEP § 1202.01, available at tmepp.uspto.gov) trade naming does not constitute a demonstration of the use requirement of the Lanham Act, it is suitable for trademark protection through the common law system, when it is also employed as a product or service name in the marketplace. Thus, a patent titled with the trade name could be indicative of a common law trademark owned by the patentee. In fact, this protection strategy could be sought by younger firms and those with a limited number of product lines (See discussion in Appendix A of the Supplementary Material).

The finding that a trade name shown in the patent title does not enhance patent valuation above and beyond the patent-trademark pairing obtained through the U.S. federal registration system does not contradict the assumption advanced by Dinlersoz et al. ([2018](#)), who claimed that the potential selection and treatment effects of the trademarking decision on firm performance arising from the common law trademarks are similar to the federal registered ones (For more details see section 4.2.).

⁴¹ For example, the patentability of a design could be mitigated by the functionality principle

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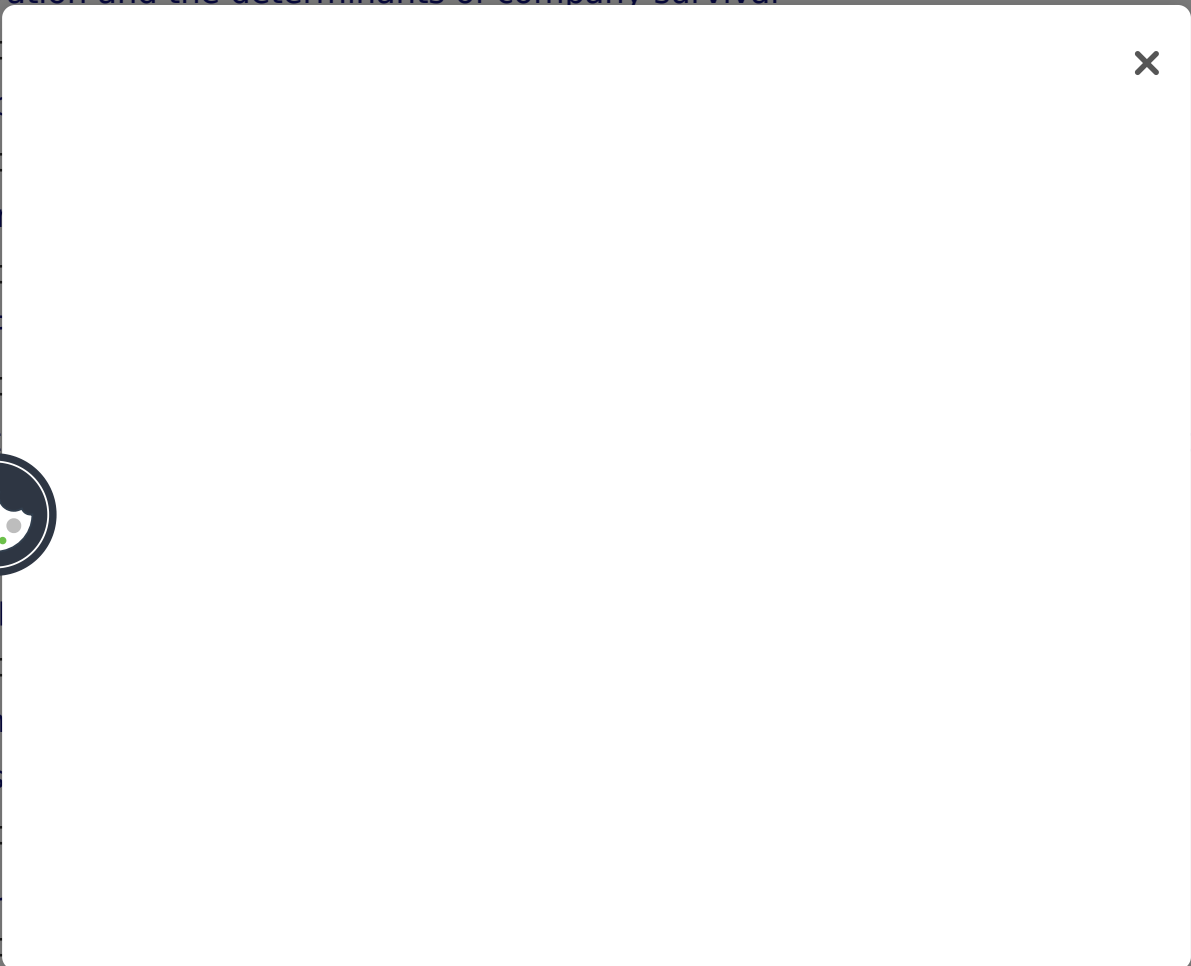
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