Using IP to Drive Business Value

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Business Objectives Should Drive IP Strategy



Business Objectives Drive IP Strategy in Large Companies

And should drive IP strategy in small emerging companies.

Consider how IP Assets can drive ROI for your firm Chart 8: Select up to five items that most closely describe your organization's highest priorities regarding IP Operations.

Item	Overall rank	Rank distribution	Score	No. of rankings
Align IP Strategy with Business Objectives	1		145	38
Reduce Costs Associated with IP Operations	2		115	32
Improve Service Level to Clients/Stakeholders	3		102	28
Standardize IP Processes 4			101	33
Improve Interface With R&D Teams	prove Interface With R&D Teams 5		99	29
Mitigate Risk in IP Processes	6		95	20
Improve IP Decision-Making		88	30	
crease IP Team Capacity 8			86	20
Improve Reporting / Visibility of IP Operations	9		64	27
Improve Use of Technology in IP Operations	10		53	10
Operate in New Countries / Regions	11		39	14
Recruit New IP Operations Talent	12		28	9
		Lowest Highest		



of Organizations Worldwide View Patents as a Business Driver

The majority (75%) say the primary purpose of their patent strategy is to enable further innovation, with patent strategies driven mainly by a desire to enable further R&D, licensing and monetizing innovation and establishing a dominant market position

https://clarivate.com/wp-content/uploads/dlm_uploads/2022/01/2022_Patent_Trend_Report.pdf

Agenda

- Why IP ends up being Concrete Shoes?
- When IP Can Be a Lifeline?
- How to Make Informed Decisions

IP as Concrete Shoes

Poor IP Strategy Can Sink Your Business

Getting IP can Burn Valuable Capital

Useless IP Assets waste valuable resources

- Patents cost time to prepare and money negotiate with the Patent Office
- Branding and Trademarks require effort by different members of your team
- Trade Secrets require vigilance and policing to make sure policies are followed
- Knowhow that leaves requires time to recover



Protecting Poor IP Drains Additional Resources

Ill-designed IP Assets waste valuable resources

- Poor drafting limits protection
- Patents can expose Trade Secrets
- IP Protections are geographically limited
- Litigation can cost companies money while also destroying their IP



Poor IP Strategy Can Destroy Your Business

Poor Management Shrinks Business Value

- Joint Ownership without Single Voice?
- Failure to Assign Patents to Company
- Possible Exposure of Trade Secrets
- Showcasing Competitive Advantage



IP Strategy as a Lifeline

IP Assets Can Help Your Firm Obtain Capital and Encourage Business Relationships

An IP Strategy turns costs into investments

Comprehensive, Cohesive, IP Strategy



IP Can Drive Funding and Relationships

Fundraising

- Venture Capital
- Litigation Finance
- Loan Collateral

Patents and Venture Capital

- VC funds can view patents as de-risking an investment
- Related to Venture-backed Exits, a "positive effect of patents on firm success for life science firms but not for information technology firms. Within the sample of life science firms, the effect of having any patent is substantially larger than the effect of having" multiple patents. That is, "the first patent is considerably more important than subsequent ones" on evaluating exit valuations in life sciences firms.¹
- It is important to know what venture capitalists in your industry/geography look for from a company's IP portfolio.

^{1.} Patrick Gaulé, Patents and the Success of Venture-Capital Backed Startups: Using Examiner Assignment to Estimate Causal Effects (July 2015) (available online at https://www.cerge-ei.cz/pdf/wp/Wp546.pdf)



Increase in probability of raising VC funding for startups **after approval of their first patent**.

Joan Farre-Mensa, et al, " Do Patents Facilitate Entrepreneurs' Access to Venture Capital?"

"Patents are particularly beneficial to early-stage startups, those founded by inexperienced entrepreneurs, those located in states with a large startup population, and those operating in the IT sector."

"This evidence suggests that patents help mitigate information frictions between startups and investors, acting as catalysts that help set startups on a path to success and more than doubling their unconditional IPO probability."

Patents Are A Key Criteria for SBIR Funding

SBIR Phase I - Feasibility

• Average awards between \$150k-\$225k (depending on agency)

SBIR Phase II - Commercialization Plan

• Patents are an enumerated consideration for SBIR Phase II funding for NIH reviewers.

\$1 Million

Max Value of SBIR Phase II Grant from NSF

* https://seedfund.nsf.gov/resources/awardees/phase-2/apply/

Patents Can Serve As Loan Collateral

- Patents Have the Attributes of Property
- Strong Bankruptcy Protection Lessens the Risk of Lending to Patenting Companies
 - More Attractive Borrowing Interest Rates
 - Studies of show a correlation between patents pledged as collateral and increases in firms' R&D Expenditures

Example - Mimosa Networks

- Raised \$20M (on \$126M valuation) from New Enterprise Associates, and Oak Investment Partners.

- Assigned Security Interest to Ally Bank

- Acquired by Airspan Networks for undisclosed sum

Date	Code	Title	Description
2014-03-19	AS	Assignment	Owner name: MIMOSA NETWORKS, INC., CALIFORNIA Free format text: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:HINMAN, BRIAN,GUREVICH, DAVID;KESKINEN, MIIKA;AND OTHERS;SIGNING DATES FROM 20131031 TO 20140124;REEL/FRAME:032478/0364
2015-03-18	STCF	Information on status: patent grant	Free format text: PATENTED CASE
2016-04-14	AS	Assignment	Owner name: MIMOSA NETWORKS, INC., CALIFORNIA Free format text: CHANGE OF ADDRESS;ASSIGNOR MIMOSA NETWORKS, INC.;REEL/FRAME:038428/0666 Effective date: 20160328
2017-11-13	AS	Assignment	Owner name: ALLY BANK, NEW YORK Free format text: SECURITY INTEREST;ASSIGNOR:MIMOSA NETWORKS; INC.;REEL/FRAME:044102/0979 Effective date: 20171026
2018-08-29	MAFP	Maintenance fee payment	Free format text: PAYMENT OF MAINTENANCE FEE, 4TH YR, SMALL ENTITY (ORIGINAL EVENT CODE: M2551); ENTITY STATUS OF PATENT OWNER: SMALL ENTITY Year of fee payment: 4
2018-11-21	AS	Assignment	Owner name: PACIFIC WESTERN BANK, AS AGENT, NORTH CAROLINA Free format text: ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:ALLY BANK;REEL/FRAME:047564/0630 Effective date: 20181120 Owner name: PACIFIC WESTERN BANK, AS AGENT, NORTH CAROLINA Free format text: SECURITY INTEREST;ASSIGNOR:MIMOSA NETWORKS, INC.;REEL/FRAME:047564/0485 Effective date: 20181120



~400,000

Number of Patents with a Pledged Security Interest from 2016-2019

*double the amount with a pledged security interest from 2012-2015

Miriam Rozen, *Inventors learn to deploy their assets as collateral*, Financial Times (June 18, 2020) (available online at https://www.ft.com/content/0b0e09b0-9362-11ea-899a-f62a20d54625)

Joint Ventures

- Typically the each company contributes something of value to a newly formed entity, one designed to oversee the new business endeavor.
- Each company has access to capital, technical, management and intellectual property (IP) resources. To expand their respective business capabilities
- Allows the parties to **attain otherwise unavailable rights** to if either acts alone.
- Patent Rights can be a key asset driving consideration when engaging in a joint venture.
- Care should be taken in forming these relationships as to ensure each party has access to, and receives value from the relationship.

Cross-Licensing

- Two (or More) parties grant each other access to patent rights that the other needs
- Examples:
 - **Google and Samsung** have a broad cross-licensing agreement for patents related to the Android OS
 - **Patent Pools** Multiparty portfolios of patents, often standard essential patents
- Key benefits include:
 - Bundling complementary technologies
 - Enhancing interoperability
 - \circ \quad Access to new markets and Monetization of unused or underused assets
 - Lower development/production costs.
- Cross-licensing schemes may create extra administrative headaches
- Can also be a **barrier to entry** for startups and may receive **regulatory scrutiny**.

Field-of-Use Licensing to Other Markets

- Patents Have the Attributes of Property
- Allows for alternative revenue streams for companies, particularly in adjacent or non-core markets while pursuing core market strategies:
 - Example: MRI companies licensing MR technologies for Oil & Gas Exploration

IP Licenses Drive Substantial Revenue

Of the 275 professionals who responded to the Clarivate 2022 Patent Trends Study, more than half spent greater than \$5M in patent license revenues.



https://clarivate.com/wp-content/uploads/dlm_uploads/2022/01/2022_Patent_Trend_Report.pdf

Patents Can Encourage Customers to Purchase

- Patents can be a **key indicator of quality** in product marketing
- Can provide assurance that your product will not become obsolete due to a competitor
- Can reduce customer risk of patent infringement
 - Particularly important in patent-centric industries such as pharmaceuticals.⁴
 - Patent Indemnification from the Uniform Commercial Code

Defensive Portfolios/Strategies Can Be Key Bargaining Chips In Negotiations

- Bargaining Chip if Threatened with Patent Infringement
- May Lead to Better Settlement Terms
- Opportunity to Cross-License Technology from Competitor that Would Not Otherwise be Available
- Also may be available as counterclaims if competitor initiates litigation.
- May also prevent a competitor from obtaining exclusivity for their developments.

Major Tech Companies Are Active in IP Acquisition

Google/Alphabet is still receiving over 2,000 patents per year, even after judicial cases had taken the teeth out of software patents.



Number of patents in the United States granted to Alphabet Inc. from 2010 to 2021

USPTO; Intellectual Property Owners Association © Statista 2022

United States; USPTO; 2010 to 2021; operating as Google Inc. until 2016



Making Informed IP Decisions

IP Canvas



Example: Understand How VCs Value IP

- Who are the Most Active Investors for Companies Like Yours?
- How Often Do Portfolio Companies of these Investors File Patent Applications?
- Do Valuations Differ Based on Patent Portfolio Size?³
 - Data shows that California companies patent on average more than in other states
 - Venture-backed Companies patent more than others
 - Startups with patent assets tend to have their first application field before even receiving any reported funding.
 - Data shows a significant positive relationship between patent assets and both
 - receiving investment <u>and</u>
 - being acquired.

It is critical to know how those funding your business view IP, and there is no single best strategy.

When Aligned with Business Strategy, Patents can Drive Additional Business Value

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Technology Development/IP Process



Example - Mimosa Networks

2014 - Raised \$20M (on \$126M valuation) from New Enterprise Associates, and Oak Investment Partners.

2017 - Assigned Security Interest to Ally Bank

2018 - Acquired by Airspan Networks for undisclosed sum



- US US9998246B2 Brian Hinman Mimosa Networks, Inc.
- マル Priority 2014-03-13 + Filed 2015-03-13 + Granted 2018-06-12 + Published 2018-06-12
- Simultaneous transmission on a shared channel by a plurality of collocated radios is provided herein. The two
- or more radios are collocated with one another and are communicating with two far radios over a pair of long
- s, range wireless links. The two or more radios are configured to transmit and ...

70%

Of US respondents to Clarivate's 2021 Survey are Enforcing Patents through Litigation at least Monthly.

- About half of respondents worldwide are enforcing once a month
- About a third are being sued monthly.
- Your largest competitors are seasoned, and experience in enforcing and defending intellectual property claims.

https://clarivate.com/wp-content/uploads/dlm_uploads/2022/01/2022_Patent_Trend_Report.pdf

Alice Corp. v. CLS Bank

Even After Major Judicial Decisions Made it Less Attractive

Major judicial decisions have taken the teeth out of many older patents, and in some case have reduced the value of obtaining software patents, but major tech companies are still very much availing themselves to the patent system.



statista 🗸

IP Can Drive Value as a Result of Tax Treatment

Add information from here:

https://marinercapitaladvisors.com/resources/asset-sale-vs-stock-sale-whats-the-difference/

References

- Joan Farre-Mensa, et al., *Do Patents Facilitate Entrepreneurs' Access to Venture Capital?* (available at <u>http://www.research.mbs.ac.uk/accounting-finance/Portals/0/Users/002/02/2/Do%20Patent</u> <u>s%20Facilitate%20Entrepreneurs%20Access%20to%20Venture%20Capital%202016.pdf</u>)
- Patrick Gaulé, Patents and the Success of Venture-Capital Backed Startups: Using Examiner Assignment to Estimate Causal Effects (available at <u>https://www.cerge-ei.cz/pdf/wp/Wp546.pdf</u>)
- 3. Celia Lerman, *Patent Strategies of Technology Startups: An Empirical Study* (available at <u>https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2610433</u>)
- 4. Chandra Mohan, et al., *Patents An Important Tool for Pharmaceutical Industry* (<u>http://www.rroij.com/open-access/patents--an-important-tool-for-pharmaceutical-industry-</u>.<u>php?aid=34351</u>)