

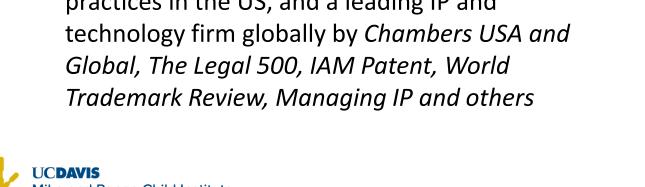
UC Entrepreneurship Academy – Intellectual Property

Victoria Lee Partner DLA Piper LLP (US)



An Introduction to DLA Piper

- A global law firm with lawyers located in 90+ offices in 40+ countries throughout the Americas, Europe, the Middle East, Africa and Asia Pacific
- 500 IP and Technology lawyers globally
- Global Open Source Practice
- Highly ranked nationwide leader in IP and ITC practices in the US, and a leading IP and Global, The Legal 500, IAM Patent, World Trademark Review, Managing IP and others





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Overview

- So you want to start a company...
- What is the role of Intellectual Property (IP)
- IP in formation issues
- What are investors looking for?

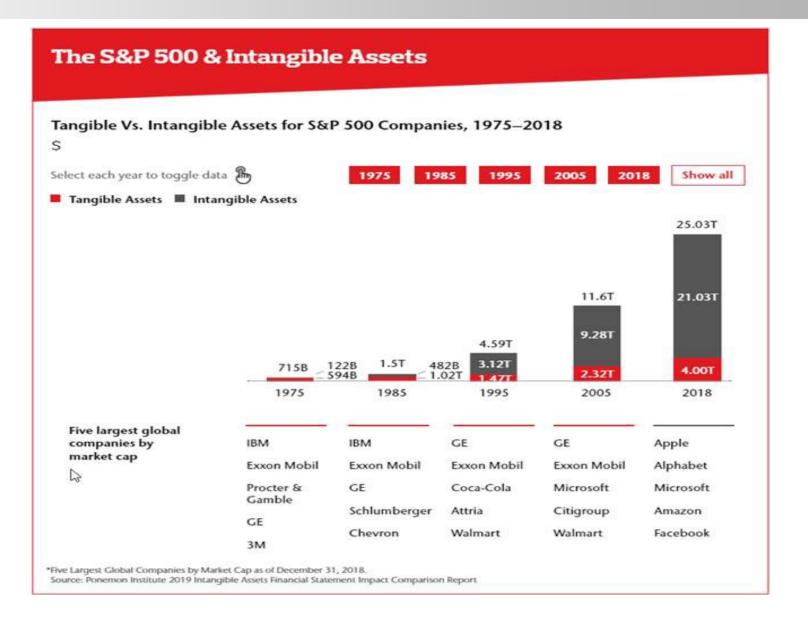




Why should you care about IP?

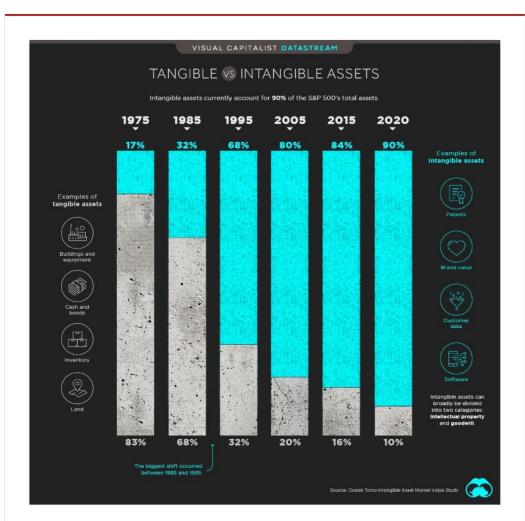
Largest global companies by market cap in 2023:

- Apple
- Microsoft
- Saudi Aramco
- Alphabet
- Amazon
- 7 of the top 10 are in the technology sector





Intangible assets as key value driver



- Intangible assets are 90% of the value of S&P 500 companies
- Value of intangible assets in S&P 500 companies from 1975 to 2020 have tripled
- Biggest change from 1985-1995 where value doubled
- Global economy moving away from industrial foundation and moving to knowledge and services is likely driver of increased value of intangible assets



Intellectual Property is International

Treaties Facilitate International Protection

- Patent
 - Paris Convention
 - Unified Patent Court, Unified Patent, European Patent
- Trademarks- Madrid Protocol
- Copyrights Berne Convention

IP Enforcement is country-by-country





Common Types of Intellectual Property in US

Patents

- Right granted to Congress in US Constitution to encourage inventors (human inventors) by giving exclusive right to inventions
- Duration: 20 years (15 years for designs) from filing
- Rights: make, use, sell, import, have made
- What can be protectable:
 - Inventions
 - Designs
 - Plants

Copyrights

- Right granted to Congress in US Constitute to encourage authors (human authorship) by giving exclusive right to works
- Duration: Life of author + 70 years; 120 years after creation or 95 years after publication if corporation
- Registration not required
- Rights: reproduce, distribute, prepare derivative works, publicly perform, publicly display
- What can be protectable:
 - Photographs
 - Software
 - Web pages
 - Databases



Common Types of Intellectual Property in US (cont.)

Trademarks

- Identifies source and quality of goods and services
- Duration: 10 years from registration, renewable if in use
- Common law rights possible
- What can be protectable: strong, arbitrary marks; descriptive marks weak
- Managing risk of infringement by marks created with generative AI

Trade Secrets

- Non-public information that provides competitive advantage and efforts taken to maintain as a trade secret; beware use of generative AI
- Duration: theoretically forever
- Rights: Use and disclosure
- What can be protectable:
 - Secret Inventions
 - Methods
 - Customer Lists
 - Tools
 - Data



Starting a company



Starting a company

- When do you start your new venture
 - When do you leave your employer
 - Can you work on your new venture while you are still working for your current employer
- How do you leave your employer
 - Is there anything you can take with you
 - What do you need to remember



IP issues for founders

- What does your current employer own
 - Effect of employee proprietary information and inventions agreements (PIIA's)
 - Copyrightable works of authorship owned by employer as work for hire if developed by employee
 within the scope of employment
 - √ Assignment of IP
 - ✓ Confidentiality obligations
 - Different treatment if you are a consultant or contractor
 - ✓ Written agreement required for enforceable assignment
 - Certain types of work commissioned from an independent contractor with a written agreement may be designated as "work for hire" owned by commissioning party

Restrictions on founders

- Non-competes
 - Not enforceable in California except for sales of business
 - Applies to employees and contractors
 - Proposed FTC ban on non-competes (new)
- Non-solicitation
 - Enforceability should be tied to protection of trade secrets
 - California does not adopt inevitable disclosure doctrine
 - ✓ Possession alone not sufficient, improper use or acquisition/misappropriation required
- Ongoing compliance with PIIA; university policies



IP Ownership/Protection for a Startup

- Company must own IP
 - Written assignments
 - Development and license agreements
- Duty of reasonable care
 - No public disclosure
 - Confidentiality agreements with all employees and consultants
 - Appropriate firewalls and e-mail security

IP Ownership/Protection for a Startup

- Which IP protection applies
 - Patents v. trade secrets
 - ✓ Business information is not patentable: market information, customer lists, pricing
 - ✓ Challenges of software patents
 - Provisional patent application v. Utility patent application
 - Register copyright or not
 - Register trademark or not
- Where to obtain IP protection



Introducing Your Company

Non-Confidential Description (NCD)

- Reviewed by the inventor
- Brief, relevant technical details
- Business advantages
- Links to published patents/articles
- Patent status





Protecting Your IP

Treat everything as confidential

Carefully guard business and technical information:

- Ideas
- Technology
- Know-how
- Computer code
- Business information
- Marketing plans

Use Confidential Disclosure Agreements (CDA's)





IP and Your Company

Establish an IP-Savvy Culture

 Management, scientists, engineers, business development team and finance professionals all on the same page

Education and Communication are Key

- IP is a valuable asset of company
- Company has an IP strategy
- Employees are aware of the IP strategy
- Company is implementing the IP strategy
- Employees understand that following IP strategy is critical to the company's success





Investors' Focus on Intellectual Property



What Questions Do Investors Ask (due diligence)?

Patents

- Patentability
 - Is your invention patentable?
 - Does it distinguish the prior art?
 - Do your patents cover your product(s)?
 - Do the patents cover design-arounds by competitors?

Ownership

- ✓ How many patents and applications do you have?
- ✓ Are the patents and patent applications properly assigned or licensed to the company?
- Freedom to Operate



What Questions Do Investors Ask (due diligence)?

Copyrights

- ✓ Ownership
 - Employees v. contractors
- ✓ Open source software
- Trade secrets
 - ✓ Protective measures
 - ✓ Disclosures of source code
 - ✓ Impact of generative AI





What Questions Do Investors Ask (due diligence)?

- Trademarks
 - ✓ Registered v. common law
 - ✓ Preserving value and goodwill, monitoring, quality control
- University and government funding/involvement
- Key agreements



Strategic IP Planning



Strategic IP Planning

- Business Strategy
 - Where is revenue and growth
- IP Strategy
 - Where to protect IP
 - What IP to protect
- Importance of alignment
 - Execute business strategy in a manner consistent with preserving IP rights and protection





Licensing Options

What type of license does company need?

- Exclusive vs. non-exclusive
- Geographic limitations
- Fields-of-use limitations
- Sublicense rights

Alternatives to a license

- Option agreement
 - √ Limited rights
 - ✓ Time-limited
 - ✓ Some cost
 - ✓ Pre-negotiate the license or license terms
 - ✓ Advantages
- Evaluation agreement
 - ✓ Fewer rights
 - ✓ Usually no cost
 - Advantages



Any Questions?

Feel free to contact:

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Reference slides



Patents and Trade Secrets

Both Patents and Trade Secrets protect ideas:

- New process
- New formulation
- New method of synthesis
- New software
- New device







Trade Secret or Patent?

Trade Secret:

- If invention cannot be easily discovered
- If the invention is not patentable
- Term—forever, if protected

Patent:

- If invention can be discovered or "reverse engineered"
- Term—20 years from utility patent filing; 15 years from grant of design patent





Types of Patents

Utility (most common)

New, original, functional, invention

Design (becoming more important)

- New, original, ornamental designs for articles of manufacture
- Protects appearance not functionality

Plant

Distinct new varieties





Types of Utility Patents

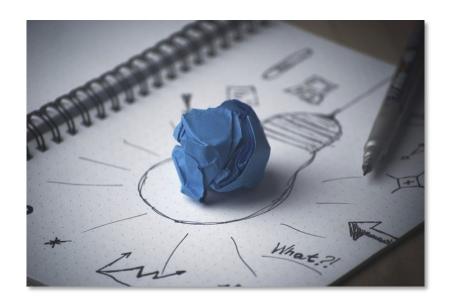
Provisional Patent Application

- No claims required but they should be included!
- Do not skimp on your Provisionals
- Secures filing date for 12-months
- Must file corresponding nonprovisional application within 12months of filing provisional or lose all rights

UCDAVIS Mike and Renee Child Institute for Innovation and Entrepreneurship

Non-Provisional Patent Application

- Claims priority to the provisional patent application
- Maintains a priority date



Patent Claim Categories

Process

A method or series of steps for producing a product or result

Machine

An operable apparatus comprising a combination of elements

Composition of Matter

A compound or mixture of ingredients

Article of Manufacture

An object, a manufactured object





Patent Requirements

Useful

Must have some utility;
 not against public policy

Novel

Must be new,
 i.e., different from prior art

Non-obvious

 Subject matter as a whole would not have been obvious at the time to person of ordinary skill in the art

Adequate Disclosure

 Adequate written description to enable a person of skill in the art to practice the invention.



Patent Application Process

- Get a patent attorney or patent agent involved
- Application sent to the U.S. Patent Office
- Patent Office sends an Office Action rejecting claims
- Applicant responds with a claim amendments and arguments refuting the rejection
- Patent Office agrees/disagrees
- Interview with Examiner: get scientist involved
- Allowance or Appeal
- Grant of Patent



Good Patents Require Good Record Keeping

- U.S. patent policy rewards an inventor who is the first to invent
- Maintain good laboratory records
- Write out and explain experiments in a bound notebook
- Data may be maintained in separate folders referenced in the laboratory notebook
- Pages of the notebook should be dated and signed regularly and should be periodically witnessed
- Best if they are periodically witnessed, signed and dated by a knowledgeable colleague who is not likely to be named as a co-inventor



Critical Patent Deadlines

U.S. Patent Applications

- More than a year before filing
 - ✓ Public use, sale or offer to sell in the U.S.
 - ✓ Printed publication describing invention anywhere

Applications Outside the U.S.

Absolute novelty—no one year grace period



Patent Costs

- U.S. provisional—\$2.5K+
- U.S. non-provisional—\$15K to \$25K+
- Foreign—can be \$100K+
- Maintenance fees/annuity fees





Patent Ownership

- Each inventor owns equal <u>and</u> undivided interest
- All inventors must sign declaration stating that they are an inventor
- Inventors assign their rights to company or university
- Ownership rights may be then be licensed





Copyrights





Copyrights

- Federal statutory right granted to an author for a work that is expressed in a tangible medium
- Examples:
 - ✓ text (i.e., publications)
 - data and software
 - music and video
- Protects the expression, not the content
- Registration not required for protection





Copyrights and Employees/Agents

Generally, author has ownership. Under Work for Hire doctrine:

Need written assignment documentation with all non-employees/agents

