

- Thank you for being here
- **Phones** ringers off/vibrate
- Interrupt only if don't understand
- Specific questions, pls wait to end
- Powerpoint will be posted on website



- 1<sup>st</sup> Three: Registration not mandatory
- **Business IP**
- IP = Intellectual Property
- Q: what was first use of IP?



- **Sybaris** = luxury & dishes (500BCE yr)
- Brunelleschi = Dome/boat/crane -1421CE
- Gutnbg **Press** = Copyright/NO pat (15<sup>th</sup> C.)
- Farm tools = Scythe (1836 #72 US patent)
- Skunkwks = Combat **submersible** (1775)
- Cattle **Brands** ( = Trademark)
- Birth **Foreceps** = Ypatents? (1570/180 yr)

### Introduction - Some Questions

- Are you inventing/designing a new product?
- Do you need protection for your product/idea?
- Could someone claim your ideas as their own?
- How are patents & IP enforced?
- What are the benefits & risks of patents & IP?
- How can IP help my products/business succeed?
- Are there more affordable ways to protect IP?

- Not just protect from idea theft or infringement, but to deterimine if you actually have rights.
- You may be **infringing** on someone else.

#### Introduction - Some Answers

- → IP protects inventions, reputations & businesses
- → IP lets you disclose ideas while minimizing risks
- → IP allows you to profit from your hard work
- → IP can prevent copying, importing & knockoffs
- → IP helps create certainty about ownership
- → IP can be licensed, sold, & used as collateral
- → IP, if properly employed, can be more affordable

- Quick review of Biz IP available
- Copyrights
- **Trademarks**
- **Trade Secrets**



- Broadcasting, Movies, Artwork, Audio
- Media, communcations, email, websites
- Software, Written Works, Books, Plays
- Music, Film, Photographs, Performances
- Engineering & technical drawings
- 3d printer files



- Simple declaration
- Owner + creation date
- On each copy of protected work
- · Can register later if needed
- Must be able to prove first use date



- Most valuable & recognizable trademarks on Earth
- Service Mark
- Illegal to use ® without Registration
- AKA Brand, Brandname, Tradename



- Distinctive in product class
- To keep, usage must be shown
- Indefinite use if maintenance paid
- Idea in public domain, use TM to protect brand reputation & quality of manufacture



- Can you keep a secret?
- Transition from business IP tools to IP that must be registered with govt.



- Software
- Spacex & Tesla IP, sometimes
- ideas become obsolete too quickly

#### Trade Secrets - Theory

- Information used in a business, not generally known, of some economic value, and maintained in
- Rights protected only if reasonable steps taken to ensure confidentiality with no casual disclosures (require NDA before disclosing)
- 【◆【 Canada Protected by common law = civil action = breach of confidence, contract law
- U.S. Protected by **proprietary** right =

criminal action = felony, may recover losses

### **Trade Secrets - Application**

- . Always use Non-disclosure Agreements when possible
- Identify valuable secrets, enact policies to secure from unauthorized access or disclosure
- . No Publication or Public disclosures
- Grace period allows creators to file patent application within year if idea disclosed by someone else (not all countries)
- Disadvantage No way to know if idea is infringing on someone else's idea without a thorough search
- Advantages indefinite protection, in any country, with no processing delay or fees due, ever

## [water & air break]

- Next: discuss patents
- The **simplest** patent: design

### Patents (Design) - Examples

- Visual / ornamental characteristics embodied in, or applied to, an article of manufacture
- · Sometimes used when patent unavailable
- Avoid Invention Scams design is not utility





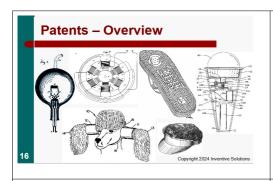


- Filigree ornamentation on door knob
- Styling in chair upholstry
- Shape & styling of watch
- Invention marketing companies charge for full patent, but often only file designs

### Patents (Design) - Basic Info

Definition	Exclusive right to make, import, rent, or sell the <b>aesthetic qualities</b> of a functional article
Examples	Statue of Liberty, Coke bottle, office chair, architecture, automobile, airplane, spoon
Criteria	novel features of <b>shape</b> , <b>configuration</b> , <b>pattern or ornament</b> of finished article
Costs	CA\$567 [Filing>Issue]; CA\$496 [Maint. Fee]* US\$415>1660:[Filing>Search>Exam>Issue]
Duration	10-15 yrs (CA) or 15 yrs (US) (*Due by end of 5th year from registration)
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- Much cheaper, but protection limited to appearance, not functional elements
- Industrial Design in Canada



- Edison's Electric Lamp (1880)
- Nikola Tesla's Alternating Motor (1896)
- Animal Ear Protectors (1980)
- Flipflop Phone (1989)
- Combined Visor & Hairpiece
- Motorized Icecream Cone (1999)



- New = why search so important
- Non-obvious = full disclosure & history makes case for inventive step

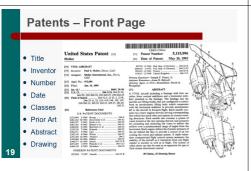
Software= US ♥; China ♠; UK/EU - fixing

## Patents - Basic Concepts

- a discovery (idea) cannot be patented, only an invention (its physical manifestation; implementation)
- government certifies the origin of an invention; enables owner's exclusive rights to be protected
- equivalent to registering a property deed/title
- limited monopoly creates incentive to innovate
- registering is cost of proving/keeping ownership
- 90% are **improvements** to existing inventions

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- To delimit a property, one must survey the boundaries between adjacent claims
- Patent examiner does this by separating competing patent claims



- Inventor = always a person
- Date = of registration, not filing
- Classes = Dewey system for patents
- Prior Art = most relevant patents
- Abstract = summary
- Drawing = representative

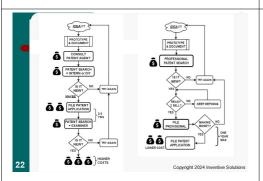


- Background = shows prior art obsolete
- Summary = shows how invention better
- Description = demonstrates utility
- Drawings = must support description
- Claims = Structured Legal Argument (specification = patent minus claims)

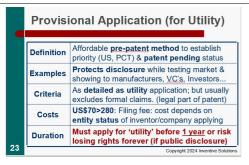


## [water & air break]

- To define search parameters, one must know all critical details of invention
- Necessary for **filing** a provisional or patent, so why not for a proper earliest **search?**



- Normal method is too expensive & risky
- Use \$\$ saved with provisional for next good idea, if current idea not making \$\$



- DIY is too risky, unless experienced technical writer, know all the rules
- Disclosure must enable building invention and include all variations (kitchen sink)

### Provisionals – Considerations

- Filed up to one year following the date of first sale or offer, public use or publication – or when idea ready...
- Filing & disclosure may bar patent = some countries
- Placeholder for utility patent: No examination/publicat.
- If patent not filed & idea disclosed, no patent allowed
- Complete description & relevant drawings required

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- Needed if inadvertent disclosure made
- Never published unless PCT (30 mths)
- Application public 6 months after filing if provisional uses full year of pendency

#### Provisionals - Advantages

- Provisional specification is bulk of patent application
- Affordable for startups, save \$\$ for manufacturing, etc.
- Time to refine product, test market & raise \$\$\$
- Can be used as basis for PCT (Intl.) application
- Additional filings OK if product improvements needed
- Establishes **earliest** effective filling date (gives extra yr)
- Confers patent pending status while disclosing
- Better protection than NDA when disclosure needed
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- Allow <u>delayed</u> spending \$\$\$ for patent filing when product is not proven out
- extra year patent term starts with application, not provisional

# International Applications Patent Cooperation Treaty (PCT) allows multiple country filings with only one standard application More cost effective than filing in each country Can be filed in any of ~180 Paris Convention states Delays local filing/publication 30 mths from priority Includes International Search Report (ISR) National examinations can be delayed (incl. fees) Provisional Application can be used as basis to file

# [water & air break]

- Applications **not examined** nationally
- Search Report results important for smooth national examination



- A>B (CA: US **Provisional** Filed 1 year)
- B>A (Provisional used to start **PCT: CA**)
- A>C (PCT Appl. filed with WIPO: EU; Good ISR accelerates Nat. Filings)
- PCT **Allowance** > C>A,B, other countries...

### Patents - Basic Process • Prior Art Search to determine novelty (hours) • Provisional or Utility Patent Application (tens of hrs) • Drawings & file Provisional (hours) INVENTOR or IP Syg. Prov. Claims & file patent application Lawyer > PATENT OFFICE • Pay fees to search & examination for patentability All examiner objections resolved (hopefully)

Certificate issued (process takes 2-3 years, if lucky)

Patents - Risks Without

• Patent allowed & final issue fees paid

- If idea stolen = difficult/costly to recover ownership
- No examination = infringement risk is not known
- No IP ownership = no property to licence
- No IP ownership = no assets or interested investors
- No IP ownership = no way to prevent imports of copies
- If infringing = must stop selling, refund \$, pay royalties
- First to file
- NDA's are not enough
- Open source disclosure risks infringement lawsuit if a registered patent already exists

### Patents - Benefits With

- Burglar alarm to infringers & roadblock to importers
- · Lowers risk of infringement & litigation
- Gold standard for investors (Venture Capital)
- Can be licensed to manufacturers for royalties
- May be used as asset to negotiate more funding
- Creates greater certainty about IP ownership

### Affordable Patent & Research Services

- 20 years: **Provisionals**, Drawings, Searches
- Certified US Patent Paralegal & Technologist
- Free **confidential** consultation
- Non-disclosure protection
- Affordable rates
- Bulletproof IP
  - Thank You



- Thanks.
- Questions...