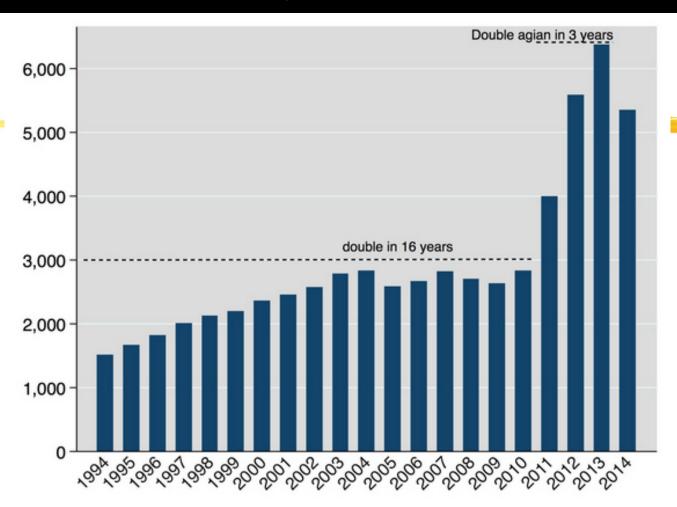
Guess What



Intellectual Property Rights

Patent

Trademark

Industrial Design

Geographical Indication

Copyright

www.mwftr.com/SD1819.html

What is Intellectual Property?

#Patent

#Trademark

XIndustrial Design

****Geographical Indication**

#Copyright

Reference: This section is a summary of the "What is Intellectual Property" from World Intellectual Property Organization (WIPO) wipo_pub_450.pdf



What is Intellectual Property?

- # Creations of the mind
 - Inventions
 - Literary and artistic works
 - Symbols, names, and images used in commerce
- # 2 categories
 - Industrial Property
 - Patents for inventions
 - **X** Trademarks
 - Copyright
 - ∠ Literary works: novels, poems, and plays
 - **X** Films
 - **X** Music
 - ☑ Artistic Works: Drawings, paintings, photographs, and sculptures

What are Intellectual Property Rights?

- ## Allows creators, or owners, of (1) patents, (2) trademarks, or (3) copyrighted works to benefit from their own works or investment in creation
- # Universal Declaration of ()
 Article 27:
 - Right to benefit from the protection of moral and material interests resulting from authorship of scientific, literary or artistic productions.
- () Convention for the Protection of Industrial Property (1883)
- () Convention for the Protection of Literary and Artistic Works (1888) – cf. U.S. Copyright Act of 1976 (U.S. adoption of Berne Convention on 3/1/1989)







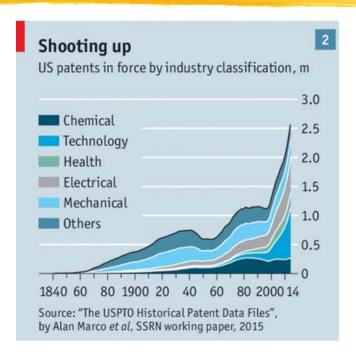
What are Intellectual Property Rights?

****Why promote and protect intellectual property?**



What are Intellectual Property Rights?

- Why promote and protect intellectual property?
 - ✓ First, the progress and well-being of humanity rest on its capacity to create and invent new works in the areas of technology and culture.
 - Second, the legal protection of new creations encourages the commitment of additional resources for further innovation.
 - Third, the promotion and protection of intellectual property spurs economic growth, creates new jobs and industries, and enhances the quality and enjoyment of life.



#A patent

- △an exclusive right granted for an invention a product or process that provides a new way of doing something, or that offers a new technical solution to a problem.
- provides patent owners with protection for their inventions.
- Protection granted for a limited period, generally 20 years.

#Patent Types

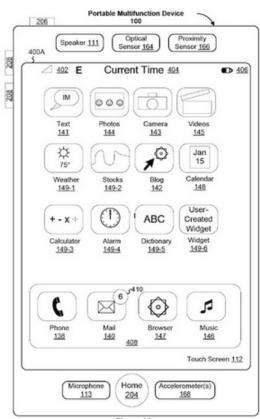
- Utility Patents new and useful product/process

- ****What kind of protection?**
 - Patent cannot be commercially made, used, distributed or sold without the patent owner's consent.
 - Patent rights, enforced in courts that hold the authority to stop patent infringement.
 - a court can also declare a patent invalid upon a successful challenge by a third party.



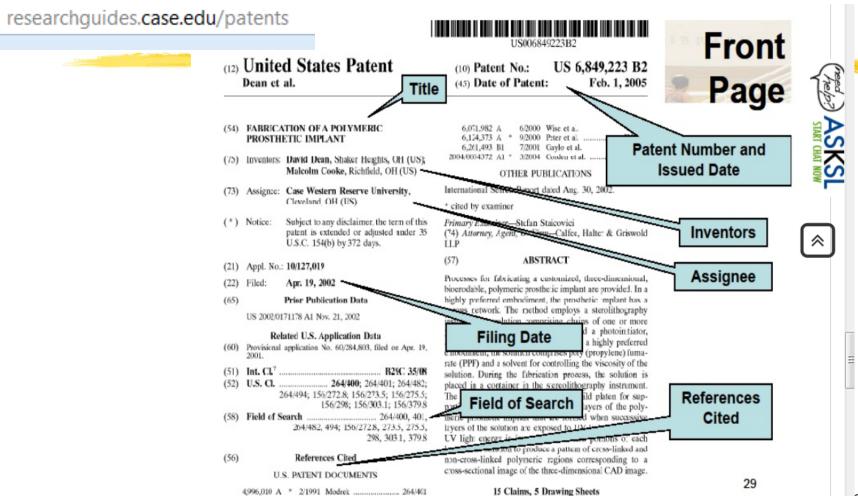
- What Role do Patents Paly in everyday life?
 - Patented inventions in every aspect of human life
 - electric lighting (patents held by Edison and Swan)
 - sewing machines (patents held by Howe and Singer)
 - magnetic resonance imaging (MRI) (patents held by Damadian)
 - iPhone (patents held by Apple).

- (12) United States Patent Jobs et al.
- (54) TOUCH SCREEN DEVICE, METHOD, AND GRAPHICAL USER INTERFACE FOR DETERMINING COMMANDS BY APPLYING HEURISTICS
- (75) Inventors: Steven P. Jobs, Palo Alto, CA (US); Scott Forstall, Mountain View, CA (US); Greg Christie, San Jose, CA (US); Stephen O. Lemay, San Francisco, CA (US); Scott Herz, San Jose, CA (US); Marcel van Os, San Francisco, CA (US); Bas Ording, San Francisco, CA (US); Gregory Novick, Santa Clara, CA (US); Wayne C. Westerman, San Francisco, CA (US); Imran Chaudhri, San Francisco, CA (US); Patrick Lee Coffman, Menlo Park, CA (US); Kenneth Kocienda, Sunnyvale, CA (US); Nitin K. Ganatra, San Jose, CA (US); Freddy Allen Anzures, San Francisco, CA (US); Jeremy A. Wyld. San Jose, CA (US); Jeffrey Bush, San Jose, CA (US); Michael Matas, San Francisco, CA (US); Paul D. Marcos, Los Altos, CA (US); Charles J. Pisula, San Jose, CA (US); Virgil Scott King. Mountain View, CA (US); Chris Blumenberg, San Francisco, CA (US); Francisco Rvan Tolmasky, Cupertino, CA (US); Richard Williamson, Los Gatos, CA (US); Andre M. J. Boule, Sunnyvale, CA (US); Henri C. Lamiraux, San Carlos, CA (US)
- (73) Assignee: Apple Inc., Cupertino, CA (US)



- **#How is a patent granted?**
 - △1 File a patent application.
 - 2 Content of the application
 - ▼Title of the invention, as well as an indication of its Technical Field.
 - Background and a description of the invention, in clear language and enough detail that "an individual with an average understanding of the field could use or reproduce the invention."
 - 23 Examination by Patent Examiners

Patent - Front Page

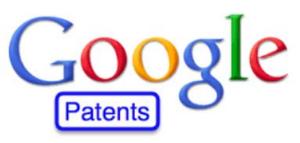


#Functions of the USPTO

- examines applications
- publishes patent information, records assignments of patents,
- maintains search files of U.S. and foreign patents,
- maintains a search room for public use in examining issued patents and records.





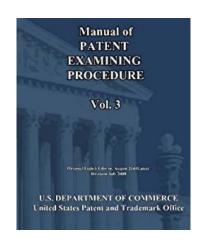




Patent Laws

- □ The Constitution of the United States
 - ☑ Article I, section 8, "Congress shall have power . . . to promote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries."
- ☐ The first patent law in 1790.
- November 29, 1999, American Inventors Protection Act of 1999 (AIPA).
- # The patent law specifies the subject matter for which a patent may be obtained and the conditions for patentability.







What can/cannot be Patented

- - The term "useful" in this connection refers to the condition that the subject matter has a **useful purpose** and also includes **operative-ness**. (a machine which will not operate to perform the intended purpose would not be called useful, and therefore would not be granted a patent)
- A patent cannot be obtained upon a mere idea or suggestion. A complete description of the actual machine or other subject matter is required.
- **Novelty** and **Non-Obviousness**



- **Novelty** and **Non-Obviousness**, Conditions for Obtaining a Patent
 - Must be **new** as defined in the patent law, which provides that an invention cannot be patented if:
 - "(1) the claimed invention was <u>patented</u>, <u>described in a printed</u> <u>publication</u>, or <u>in public use</u>, <u>on sale</u>, <u>or otherwise available to</u> the <u>public before the effective filing date of the claimed invention</u>" or
 - ∠"(2) the claimed invention was described in a <u>patent issued</u> [by the U.S.] or in an application for patent published or deemed published [by the U.S.],"



Novelty and **Non-Obviousness**, Conditions for Obtaining a Patent

- ☐ Term "otherwise available to the public" refers to other types of disclosures of the claimed invention such as, for example,
 - an oral presentation at a scientific meeting,

 - <u>a lecture or speech</u>,

 - ⊠a <u>YouTube™ video</u>, or
 - a website or
 - **⊠**other <u>on-line material</u>.

Example Patent

200 patents

Well as per the information available on the Web an iPhone has about 200 patents. Weird as I was expecting more but this figure is based on some patent based research. Anyway this is just some data on some website. We can't believe anything on the Web unless it comes from official sources.



ip-science.thomsonreuters.com/m/pdfs/iphone-report.pdf

How many patents does an iPhone have? - Quora https://www.quora.com/How-many-patents-does-an-iPhone-have

> **Assist Features for Content Display Device:** Patent # US20110167350, filed by Apple in January 2010, which addresses education by allowing users to interact with text via a touch-sensitive display in order to learn more about the text (see drawing).

Finder Window Help Table of d Riding Hood 510~ ugh the forest big juicy red She used a 204 ass to find her way. Red Riding Hood some pretty

Example Patent



) ip-science.thomsonreuters.com/m/pdfs/iphone-report.pdf

CORE TECHNOLOGY AREAS OF APPLE PATENTS

FIGURE 1

TECHNOLOGY AREA	NUMBER OF INVENTIONS (PATENTS)
iPhone, Smartphone General	416
Camera	279
User Interface	232
Image Display/Screen	149
Battery/Power Control	88
Antenna	75
Calendar	31
Contact Management	15
Voice Control	5

Source: Derwent World Patents Index*

https://inovorg2011-2.wikispaces.com/file/view/2.1-How+many+patents+does+it+take+to+build+an+iPhone.pdf

MMFTR

Example - Copyright

Embedded Computing with PIC16F877(A) -Assembly Language Approach

A complete guided project book for PIC students, 2006. p. 475 by Charles Kim, Ph.D.

Copyright Registration #: TX0008013944



 Embedded Computing with PIC 16F877students - Topics covered, with full assemble download, LED light on/off, Piezo-electric by Voice synthesizer connection, DC motor con and Bipolar Stepper Motor control application external serial EEPROM application, Internand digital clock application, A/D conversion

Certificate of Registration



This Certificate issued under the seal of the Copyright Office in accordance with title 17, *United States Code*, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

Register of Copyrights, United States of America

Registration Number

TX 8-013-944

Effective Date of Registration: July 30, 2014

Title

Title of Work: Embedded Computing with PIC16F877(A) - Assembly Language Approach

Completion/Publication

Year of Completion: 200

Date of 1st Publication: September 01, 2006 Nation of 1st Publication: United States

Author

• Author: Charles Kim

Author Created: text, photograph(s), computer program

Citizen of: United States

communication, and so on. Again, complete source codes and subroutines for each every application and subject.

Contemporary Issues which involve Intellectual Property Rights

Patent dispute between Apple and Samsung (on smartphone patents)



Patent Lawsuit between Microsoft and i4i (on markup language document editing)





Copyright Lawsuit between Oracle and Google (on Java APIs)



Qualcomm suing Apple



HW#2 on Patent and Contemporary Issues (Individual)

- # Choose 1 of the lawsuits
- # Subject Title: Patent(Copyright) Dispute between A and B
- # Focus on
 - The technical (i.e., involved patents or copyrights) issue of the litigation
 - What rulings have been made (and in which U. S. courts)
- **#** Assignment Details

 - Submission: (a) Word file: lastname_HW2.docx and (b) Hardcopy
 - □ Grading: {First paragraph (10) + Entire Report (10) 0.2*Similarity
 Score} -- □ Do not quote in the essay
 - Due: M 10/29/2018 (Electronic Copy + Hardcopy)
 - Individual Work