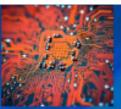




### IP Strategies for Software Tech Companies

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## Roadmap

- Key IP Concerns for Software Tech Companies
- New Post-Grant Proceedings for Challenging Patents
- Impact of Alice on Software Patents and the Importance of Building a Strong Patent Portfolio



## Key IP Concerns

• Key IP issue that comes up over and over again:

#### IS THE COMPANY GOING TO BE SUED FOR PATENT INFRINGEMENT?

- Risk Assessment
  - Risk of getting sued
  - Risk of paying out \$\$\$ or being shut down
- Threats of patent lawsuits come from:
  - 1. Competitors
  - 2. Non-Practicing Entities (NPEs)/Patent Trolls
    - Do not sell any products or services
    - Acquire patent rights to assert against operating companies



## Competitors v. NPEs – What do they want?

#### **Competitors**

- Business-Driven Goals
  - An injunction
  - Lure away/threaten existing and potential customers
  - Slow down business growth
  - Money
- Willing to sue early stage companies

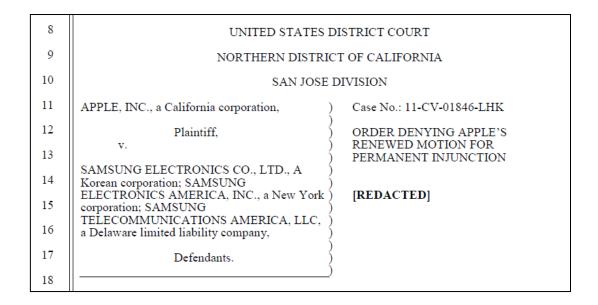
#### **NPEs**

- Monetary Goals
  - Sue big companies with significant revenue
  - Sue lots of smaller companies for nuisance value
- Typically target established companies



#### Three Main Lawsuit Risks

- Injunction will shut down business
  - But...these are rare

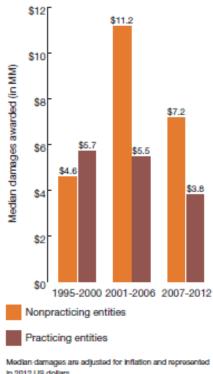




#### Three Main Lawsuit Risks

Will have to pay \$\$\$ for damages or settlement

Chart 2b. Patent holder median damages awarded: nonpracticing entities vs. practicing entities



in 2012 US dollars.

http://www.pwc.com/en\_us/us/forensicservices/publications/assets/2013-patent-litigation-study.pdf



#### Three Main Lawsuit Risks

3. Will have to spend \$\$\$ to defend a lawsuit

#### AIPLA 2013 Report of the Economic Survey

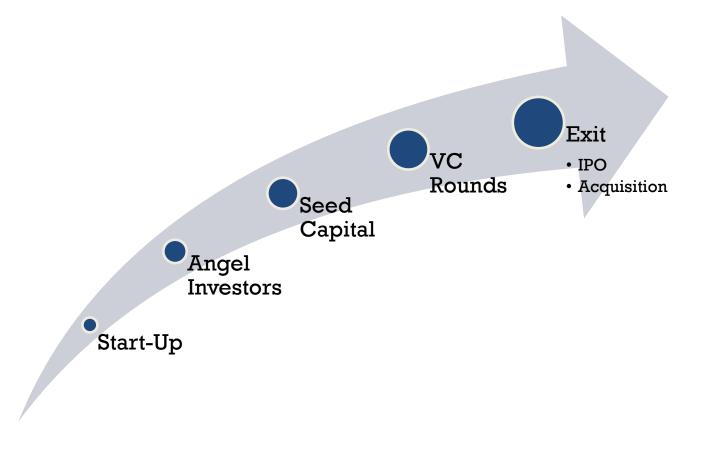
Patent Infringement (all varieties)		
Amount in Controversy	End of Discovery	Through Trial
<\$1M	\$530 <i>K</i>	\$970 <i>K</i>
\$1 <i>M</i> -\$10 <i>M</i>	\$1.2M	\$2.1M
\$1M-\$25M	\$1.7M	\$2.8M
\$10M-\$25M	\$2.2M	\$3.6M
>\$25M	\$3.6M	\$5.9M
Patent (defendi	ng against N	PEs)
Patent (defendi Amount in Controversy	ng against N End of Discovery	PEs) Through Trial
Amount in Controversy	End of Discovery	Through Trial
Amount in Controversy < \$1M	End of Discovery \$516K	Through Trial \$820 <i>K</i>
Amount in Controversy < \$1M \$1M-\$10M	\$516K \$988K	\$820 <i>K</i> \$1.6 <i>M</i>

http://www.patentinsurance.com/custdocs/2013aipla%20survey.pdf



#### When Is Risk Assessed?

Key Decision/Funding Milestones = Risk Assessment Stages





# Assessing Patent Risk – The Tech Industry

How do you know which patents might be infringed?



30



250,000



## Assessing Patent Risk – Competitors

- Competitor Portfolio Assessment
  - Research and monitor information patent portfolios
  - Analyze patent families for existing risk and potential future risk
    - Damages estimations
    - Patent term estimates
  - Track litigation behavior



## Assessing Patent Risk – Competitors

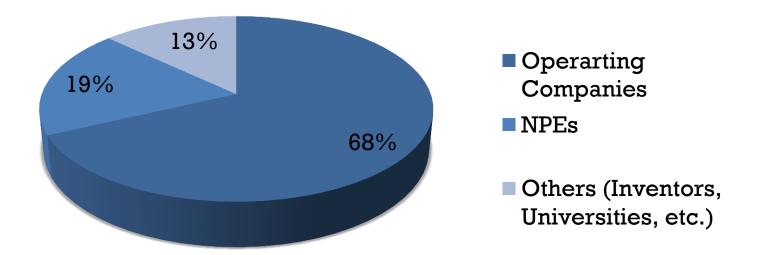
- Options for Reducing Risk
  - Indemnification from data and technology suppliers
    - But, not usually provided for open source code
  - Strategic alliances/partnerships
  - Escrow funds for acquisitions
  - Patent Infringement insurance
  - Establish Company positions for patents with high risk



- More concern about NPEs
- "Reports" that NPE litigation is dramatically increasing
  - RPX estimates that the numbers are even higher claiming that 67% of all cases filed in 2013 were filed by NPEs
    - <a href="http://www.rpxcorp.com/2014/05/06/no-major-surprises-in-2013-npe-litigation-eport-cases-total-defendants-and-unique-defendants-all-up/">http://www.rpxcorp.com/2014/05/06/no-major-surprises-in-2013-npe-litigation-eport-cases-total-defendants-and-unique-defendants-all-up/</a>
- But, others say that the increase isn't significant
  - "[T]he raw number of patent lawsuits filed by non-operating companies substantially increased from 2010 to 2012." However, "[a]fter considering the total number of patent litigants, we found rather a modest increase between 2010 and 2012."
    - Christopher A. Cotropia, Jay P. Kesan & David L. Schwartz, <u>Unpacking Patent</u>
       <u>Assertion Entities (PAEs)</u>



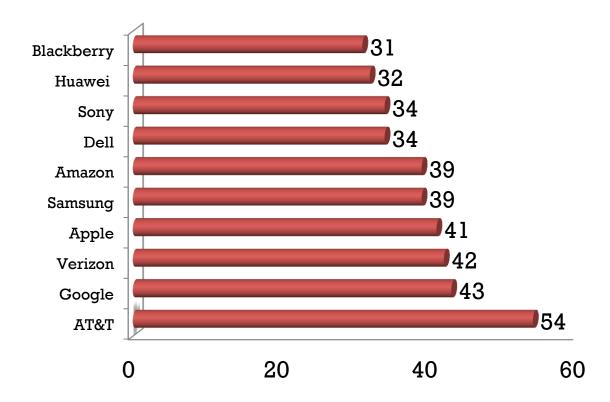
#### **Entities Filing Patent Suits (2007-2011)**



http://cpip.gmu.edu/2013/10/04/gao-report-confirms-no-patent-troll-litigation-problem/



Top targets for 2013 NPE lawsuits



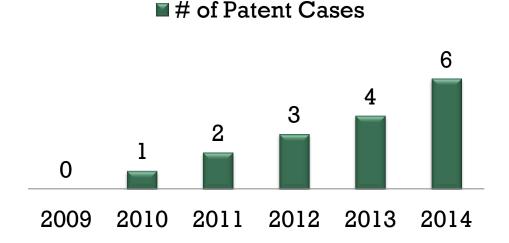
http://fortune.com/2014/02/27/10-biggest-patent-troll-targets-in-business/



- Risk increases as the Company grows
- What can be done?
  - Defensive Patent Aggregators (e.g., RPX)
    - Group membership to buy a "license"
  - "Patent Pledges"
  - "License on Transfer" Licenses
  - Changes in the law
    - [Stalled] Legislation to address NPE litigation
    - Changes from the Supreme Court



- In 2014, the Supreme Court decided **6** patent cases
  - All were <u>unanimous</u> decisions
  - l pending patent case that will be heard this fall
- This is a high number of patent cases compared to previous years





#### Supreme Court Cases in 2014

- 1. Deference to district court for claim construction
  - Teva v. Sandoz (cert granted)
- 2. Limiting protection for certain business method/software patents
  - Alice v. CLS Bank
- 3. Invalidating claims that don't have "reasonable certainty"
  - Nautilus v. Biosig
- 4. Limiting certain types of infringement to require a direct infringer
  - Limelight v. Akamai
- Deference to district court for determining "exceptional" case/feeshifting
  - Highmark v. Allcare
- 6. Expanding "exceptional" case/fee shifting analyses to include the "totality of the circumstances"
  - Octane Fitness v. Icon Health & Fitness
- 7. Patentee bears the burden of persuasion on infringement
  - Medtronic v. Boston Scientific



- What is the Supreme Court's trend?
  - Making requirements <u>more stringent for patent owners</u> who are asserting their patents
  - Making it <u>easier</u> for district courts <u>to find exceptional cases</u>
     <u>and award attorneys' fees</u>
- Effect = More litigation risk for NPEs



## **Attacking Patents**

- There are options for attacking bad and/or problematic patents
- Strategic considerations
  - May be starting a fight that wasn't ever going to occur
  - May prefer to let others handle
  - Timing
  - Cost: \$\$\$ + Company time
- Recent changes in the law have added new ways to attack patents
- Having your own arsenal of weapons is also important





# POST-GRANT PROCEEDINGS UNDER THE AMERICA INVENTS ACT



## Changes to Post-Grant Disputes

#### **Before**

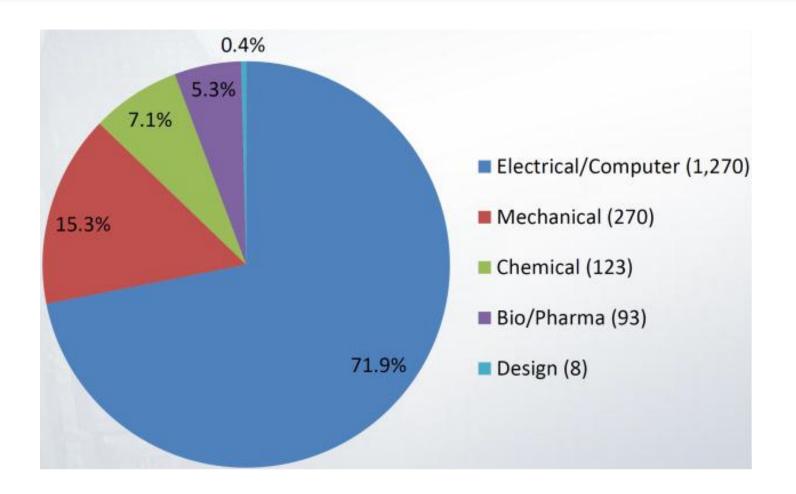
- Ex Parte Reexam
- Inter Partes Reexam

#### **After**

- Ex Parte Reexam
- Inter Partes Review
- Post-Grant Review
- Transitional Program for Covered Business Method Patents

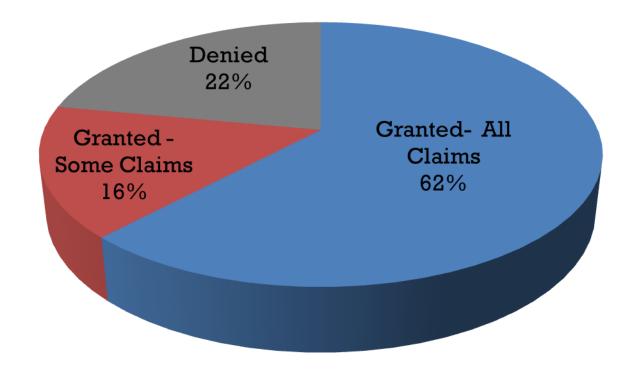


# IPR and CBM Filings by Technology



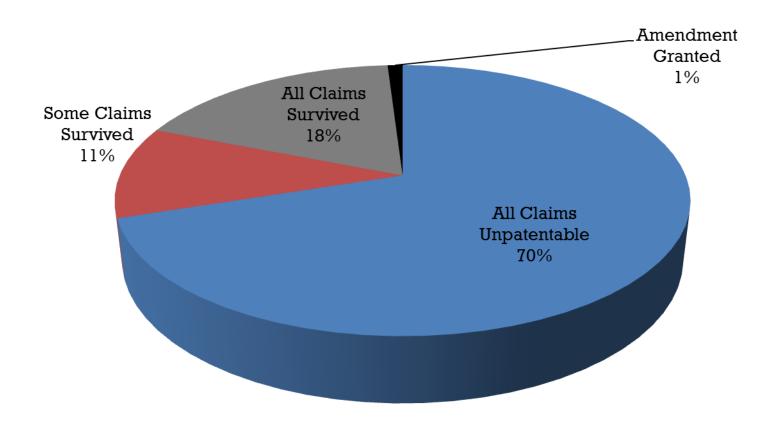


## Trials Instituted at High Rate





#### **IPR Final Written Decisions**





#### Ex Parte Reexamination

- Patent challenger files a request for the USPTO to institute reexamination based upon prior patents and prior publications
- If reexamination is instituted, it is much like standard patent prosecution:
  - Patent Owner receives and responds to a series of Office Actions
  - Patent Owner can amend the claims or argue that existing claims are patentable
  - Challenger does not participate in process
  - No discovery is allowed



#### Inter Partes Review

- Petitioner asks the USPTO to invalidate a patent based upon prior patents and prior publications
- If the petition is granted, the USPTO institutes a minitrial to determine whether the claims are valid
  - Both sides submit expert testimony
  - Limited depositions and other discovery is allowed
  - Trial ends in an oral hearing before panel of judges
- Challenger must file the petition within one year of being served with a patent infringement complaint
- If Petitioner loses, it cannot assert future invalidity defenses that it raised or could have raised in the IPR



#### **Post-Grant Review**

- Bases for challenging patent are not limited to patents and prior publications:
  - Public uses and commercial sales
  - Patent ineligibility under 35 U.S.C. § 101
  - Written description and enablement
- Available only for patents filed after March 15, 2013
- Must be filed within nine months of patent issuance
- Limited discovery allowed
- Estoppel applies



#### Covered Business Method Post-Grant Review

- A form of Post-Grant Review
- Limited to business method patents for financial products or services (Interpreted Broadly)
- Similar to Post Grant Review Except:
  - Immediately available
  - No nine-month time limit
  - Petitioner must be charged with infringement
- Limited discovery allowed
- Limited estoppel applies



#### IPR and CBM Review – The Petition

- Petitioner in IPR or CBM bears the burden to show that the claims are invalid
- The initial petition must include the evidence relied upon to invalidate the claims:
  - Detailed claim chart for each challenged claim
  - All bases for invalidity
  - Supporting expert declaration in most cases



#### IPR and CBM Review – The Trial

- After a petition is granted, the term "trial" refers to the entire IPR or CBM review proceeding
- Unlike reexamination, the trial is not a series of Office Actions
- During the trial, the Board:
  - Considers the parties' written evidence and arguments
  - Rules on motions of the parties
  - Conducts an oral hearing
- At the end of the trial, the Board issues a single written decision





# ALICE!



#### Alice – What Is The Real Issue?

The Big Question:

Are "software and business method" patents still eligible for patent protection?

- Eligibility is determined under 35 USC Section 101
- But, it is not the only requirement
  - Invention must be novel (Section 102)
  - Invention cannot be just obvious over what is already known (Section 103)

## Alice - "Abstract" Ideas Are Not Eligible

- Unanimous decision that the claims were not eligible subject matter
  - "[T]he asserted claims were drawn to the abstract idea of intermediated settlement"
    - "a fundamental economic practice long prevalent in our system of commerce"
  - "[M]erely requiring generic computer implementation fails to transform that abstract idea into a patent-eligible invention."



#### Alice – Not All Ideas Are Abstract

- "At the same time, we tread carefully in construing this exclusionary principle lest it swallow all of patent law." (Mayo)
- "Thus, an invention is not rendered ineligible for patent simply because it involves an abstract concept. Application of such concepts to a new and useful end remain eligible for patent protection." (Diehr)



## Alice - The Two-Step Mayo Process

- Step 1
  - -Is the invention an "abstract idea"?
- Step 2
  - -If so, is there something more that transforms the claims into something patentable?



# Alice - Takeaways

- Not a surprising decision
  - Consensus that the patents should not have been approved
  - Alice was another "easy" case
- Did <u>not</u> find that all software patents are abstract
- Did not give a test for determining whether something was abstract, just a "preemption" metric



## **USPTO** Interim Guidelines

- Limitations referenced in Alice Corp. that are not enough to qualify as "significantly more" when recited in a claim with an abstract idea:
  - Adding the words "apply it" (or an equivalent) with an abstract idea, or mere instructions to implement an abstract idea on a computer
  - Requiring no more than a generic computer to perform generic computer functions that are wellunderstood, routine and conventional activities previously known to the industry



#### **USPTO** Interim Guidelines

- Limitations referenced in Alice Corp. that may be enough to qualify as "significantly more "when recited in a claim with an abstract idea:
  - Improvements to another technology or technical field
  - Improvements to the functioning of the computer itself
  - Meaningful limitations beyond generally linking the use of an abstract idea to a particular technological environment



# "A simple hypothetical..."

## Tuxis Tech v. Amazon – decided 9/8/14

A man enters a clothing store to purchase a new pair of dress slacks	"a user initiated primary transaction for the purchase of a good or service".
The sales representative assists the man in finding a pair of pants, and in the process learns that the man is a banker	"a second data element relating to the [identity of the customer]".
Knowing that suspenders are fashionable in the banking profession, the sales representative offers the banker a pair of suspenders that match his pants	"utilizing at least in part the primary transaction data including the identity of the good or service of the primary transaction and the second data element [related to the customer] and determining at least one item for a prospective upsell".
The customer agrees with the sales representative and purchases the suspenders	"receiving an acceptance of the offer in real time".



## What about the other elements?

- 1. A method for providing offers in real time of an item constituting a good or a service in the form of offers for purchase of the item to prospective customers as users of the system, utilizing an electronic communications device, comprising the steps of:
- establishing a communication via the electronic communications device between the user and the system for purpose of a user initiated primary transaction for purchase of a specific good or service,
- obtaining primary transaction data with respect to the primary transaction, including the identity of the prospective customer and of the good or service for purchase in the primary transaction,
- generating an upsell offer as a result of the user initiated primary transaction by: utilizing the identity of the prospective customer to obtain at least a second data element relating to the user,
- utilizing at least in part the primary transaction data including the identity of the good or service of the primary transaction and the second data element and determining at least one item for a prospective upsell transaction with the prospective customer, and
- offering the item to the prospective customer and receiving an acceptance of the offer from at least one user in real time during the course of the user initiated communication.



# WHY CONTINUE FILING SOFTWARE APPLICATION?



# PTO Still Allowing Software Patents



#### UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspio.gov

#### NOTICE OF ALLOWANCE AND FEE(S) DUE

20995 7590 07/11/2014 KNOBBE MARTENS OLSON & BEAR LLP

2040 MAIN STREET FOURTEENTH FLOOR IRVINE, CA 92614 EXAMINER TRAN, HAI

ART UNIT PAPER NUMBER

3694

DATE MAILED: 07/11/2014

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO.

13/294,696 11/11/2011 9336

TITLE OF INVENTION: ROLE-BASED PERSONALIZATION

APPLN. TYPE ENTITY STATUS ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional UNDISCOUNTED \$960 S0 S0 \$960 10/14/2014



## "Business Methods" Patents

- In "class 705", which appears to be the hardest hit technology area (relates to "Data Processing: Financial, Business Practice, Management, or Cost/Price Determination")
  - 39 patents were issued September 9, 2014. Titles such as:
    - "Variable rate payment card"
    - "Generating a customer risk assessment using dynamic customer data"
    - "System and method for subscription-based delivery service"
    - "System and method for transacting purchases with a cash vendor using points and a virtual credit card"
  - This same week last year, 128 patents were issued in class 705



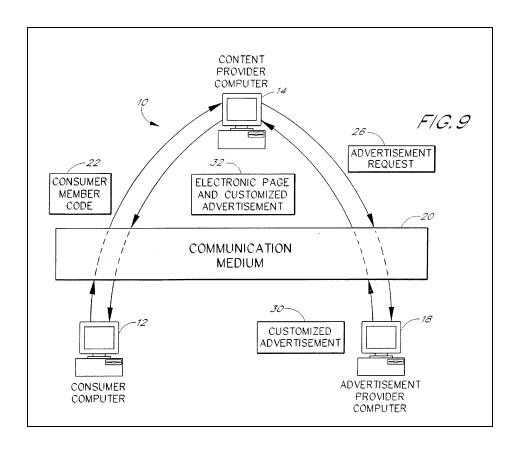
## Issued Software Patents are still valuable!

- Law is in Flux!
  - Expect Federal Circuit decisions soon that clarify subject matter eligibility standard
- Valuable in many ways that don't require testing 101 validity all the way through a trial ...
  - Marketing
  - Better licensing terms
  - Attract Capital
  - Licensing Revenue
  - Stop Competition
  - Protect Market Niche

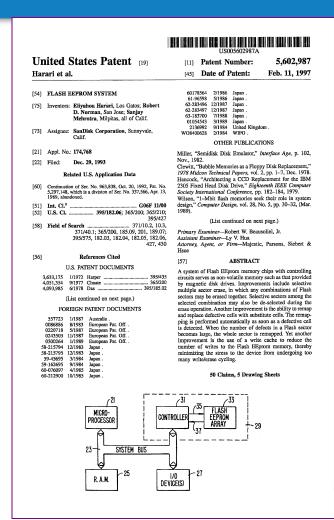


# **Example: Attracting Capital**

• Internet Advertising - U.S. Patent No. 5,933,811



## Example: Licensing



#### SmartMedia Card



Available Capacities

Store Images, Text And More On A SanDisk® Removable SmartMedia Card!



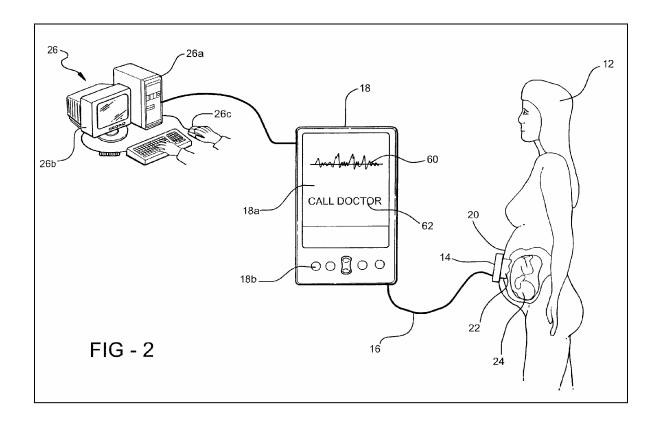
#### What is a SanDisk® SmartMedia Card?

The SanDisk® SmartMedia card is a removable flash memory card that can be used in several different types of digital devices; including digital cameras, digital music players and digital voice recorders.



# **Example: Stopping Competition**

• Patient Monitoring System - U.S. Patent No. 5,558,638





# Example: Protecting Market Niche



Can be used as a single parameter, standalone monitor





SatShare enables installed base of conventional monitor to easily upgrade to Masimo oximeters

Can be used as a battery operated, handheld oximeter





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