

## **Knobbe Martens**

## **Protect and Respect: Legal Protections for Medical Devices & Data**

September 14, 2022

#### **Curtis Huffmire**

7<sup>th</sup> Annual International Symposium on Technology in Medical Data and Devices

Irvine, CA

#### Overview

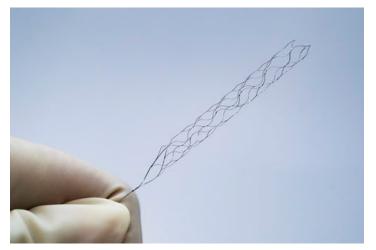
- Recent Deals in the Medical Device Space
- Increasing Value by focusing on both IP and Data Protections
- Protecting Innovation with Patents and other IP
- Respecting Privacy and implementing Data Controls

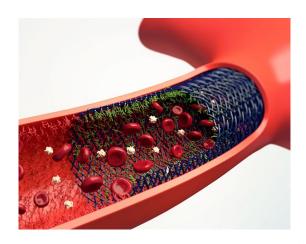
#### Recent Medical Device Deals in the News

- Wallaby Acquires German Neurovascular Leader Phenox \$543M
  - Neurovascular devices to treat ischemic and hemorrhagic strokes
  - One of the largest cross-border transactions in the medical device industry globally in recent years
  - Global leader in providing a wide range of neurovascular technologies and solutions to its customers and patients around the world, including in the U.S., China, Europe, Japan and other international markets.



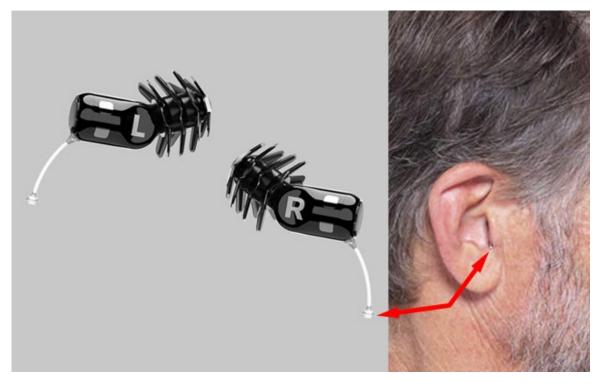






#### Recent Medical Device Deals in the News

- Eargo secures \$100M investment from Patient Square Capital
  - Eargo hearing aids are virtually invisible, rechargeable, completely-in-canal, FDA regulated and indicated to compensate for mild to moderate hearing loss.
  - According to some aspects, the device can have an accelerometer and a power control module to receive input data in order to make a determination to autonomously change a power mode for the hearing aid based on movement.



## Businesses Are Increasingly Valued By Intangible Assets

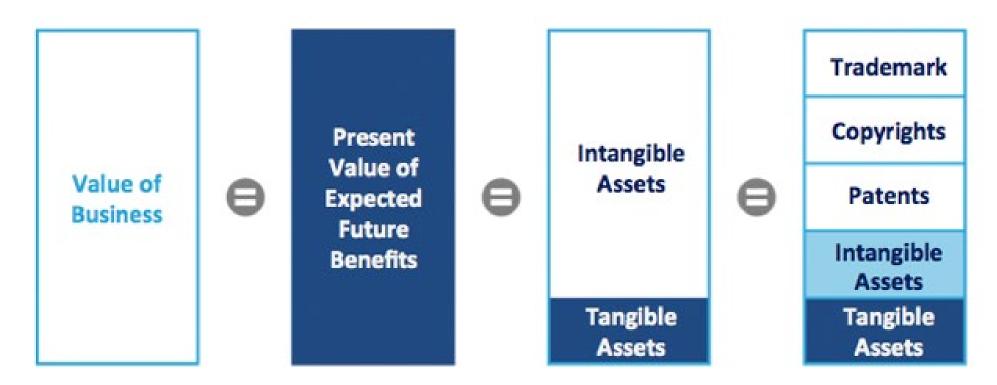
## COMPONENTS of S&P 500 MARKET VALUE



Knobbe Martens SOURCE: OCEAN TOMO, LLC

## **IP Valuation**

IP depends on other assets and resources in order to generate economic benefits



## Patents Are Critical Assets In Medical Device Valuations and Acquisitions



## Don't Neglect Data Security and Privacy



- 1 in 4 will experience a data breach.
- Cost of a breach can be about \$4M or more on average.
- Don't depend on privacy compliance alone—Be Proactive!

#### Protect Your Innovation with a Patent Fortress

- Control the Core
- Expand the Wall
- Prepare for Battle



#### Control the Core – Evaluate Your Core Patent Position in an IP Audit

- Confirm ownership properly documented
- Foster communication between teams to confirm marketable features are protected by patent claims
- Incentives to encourage recording inventions



#### Control the Core

- Secure rights with solid IP Agreements
  - Hire IP counsel for IP agreements
  - Execute strong NDA's before disclosing to others
  - Secure broad assignment agreements with all inventors
  - Be very careful with co-development agreements
    - Seek to own all IP
    - If not possible, define categories very carefully for ownership or use
    - Do not try to avoid the controversy through "co-ownership" of IP

#### Control the Core

- Obtain meaningful patents
  - File early
  - Perform prior art searching and cite all prior art to examiner
  - Use expedited examination
  - Do not say conflicting things at Patent Office and FDA
  - Keep foreign options open in relevant markets

## Expand the Wall – File Continuing Patent Applications of Strategic Scope

- "IP Round-up"
- Foster communication about areas of future growth or expansion and direct patents to the space early on
- Encourage Provisional Patent Applications
- Protect Alternatives



## **Expand the Wall**

- Employ sophisticated patent claim strategies
  - Seek diverse coverage
    - devices and methods
    - Use varying claim scope and different specifications
  - Avoid claiming "too much"
    - Limit contextual structure
    - Be careful with reusable and disposable components
  - Use functional language
  - Always keep a continuation pending

## Prepare for Battle – Develop Strategic Offensive and Defensive Plans

- Conduct regular patent searching
- Foster communication about what is observed from competition in market
- Obtain opinions of counsel regarding third party patents of risk
- Craft claims to block competitor advancement



## Prepare for Battle

- Do freedom-to-operate searching and analysis
  - It is expensive but can dramatically enhance your company's valuation
  - Design-around where possible
  - Develop reliable non-infringement or invalidity arguments
  - Be careful about waiving attorney-client privilege in diligence discussions
  - Be wary of approaching IP owners to seek licenses

## Prepare for Battle

#### Trade Secrets

- Not a substitute for a patent
- But can be very powerful in right circumstances
  - Must be kept secret; not easily reverse-engineered
  - Must be able to describe without disclosing secret
  - Strong contracts and diligent in keeping it secret

## Prepare for Battle

- Don't forget other IP issues
  - Trademarks
  - Copyrights
  - Domain names
  - Data privacy

## Trends in Med Device and Data Privacy

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- Med Devices are sensing and collecting more data
- Med Devices are connected and transmitting more data
- Med Devices are provided access to more data
- Med Devices are learning and improving outcomes using data
- Data is becoming increasingly valuable
- Companies and Governments are respecting and protecting data

## Trends in Med Device and Data Privacy

- Respecting Data
  - Patients have a right to privacy and control of their data
- Protecting Data
  - Companies and Governments have responsibilities to secure data
- Data Privacy and Data Security are essential aspects of a Med Device company's success
  - Strong Data Privacy and Security Policies lead to increased value
  - Weak Data Privacy and Security Policies lead to increased losses

#### Cost of Data Breach

Average total cost of a data breach:

\$3.86 million

Average total one-year cost increase:

6.4%

Average cost per lost or stolen record:

\$148

One-year increase in per capita cost:

4.8%

Likelihood of reoccurring material breach over the next 2 years:

27.9%

Average cost savings with an Incident Response team:

\$14 per record

## What your personal data is worth to a hacker (per record)

• \$10 Name, Address & Email

\$50 Drivers license

\$50 Credit/Debit Card

\$3 Netflix password

• \$100 Bank password

• \$1000 Bank password (balance >\$15k)

• \$1000 Complete medical record

\$300 Average medical record

The incentives for hackers are great

The personal data of a US resident is worth about

**\$2000 — \$3000** per year

Ponemon Institute; 2018 Cost of a Data Breach Study: Global Overview

## How should my Med Device Co respect and protect data?

## How should my Med Device Co respect and protect data?

- Companies should fully embrace data privacy and security
  - Take responsibility to respect the customer/patient re use of data
  - Take responsibility to secure the valuable customer/patient data
  - Comprehensive privacy and security plans will pay off long term
- Jurisdictions have new and developing laws
  - Understand the laws
  - Comply with the laws

## Hypothetical Med Device Co makes standard pacemakers

- What kinds of data are involved?
  - Basic customer info?
    - Name, Address, Phone, Age, Birthdate?
    - Web IP address, shopping preferences?
  - Patient related data?
    - Health history? Mobile data? Heart rate?



What are basic requirements for Data Privacy and Security?

## **Data Privacy 101**

- > Broad term that encompasses many areas of law and issues
  - > Common law rights to privacy
    - > False light, intrusion, appropriation, and public disclosure of private facts
  - ➤ **Statutes** related to certain industries/sectors (e.g., Telephone Consumer Protection Act, Fair Credit Reporting Act, Controlling the Assault of Non-Solicited Pornography And Marketing Act of 2003, Health Insurance Portability and Accountability Act of 1996, etc.)
  - > Data breach notification laws (all 50 states)
  - > Comprehensive Data Rights Statutes
    - General Data Protection Regulation (GDPR)
    - California Consumer Privacy Protection Act (CCPA)
    - No U.S. federal comprehensive data privacy law
    - Closest is Section 5(a) of the Federal Trade Commission Act, which prohibits "unfair or deceptive acts or practices"

CCPA v. GDPR



- · Requires consent from the individual
- Wide definition of personal information including browser history, purchase behaviour, site/app interactions
- Allows for opt-out of collection/use
- Fines potentially in the millions of dollars
- · Private right of action, class suits
- Extraterritorial effect on business



- Has a legitimate interest component
- Defines PII and sensitive information
- Default to opt-in for collection/use
- Fines potentially in the millions of dollars
- Public complaints to an enforcement body to address
- Extraterritorial effect on business

## Personal Rights under the GDPR

- Right to Access Personal Data
- Right to Rectification
- Right to Erasure
- Right to Restrict Data Processing
- Right to Be Notified
- Right to Data Portability
- Right to Object
- Right to Reject Automated Individual Decision Making

## CCPA – California Consumer Protection Act – Summary

#### Who?

Any for-profit businesses conducting business in California that collects or processes personal consumer data of California residents **AND** also meets one of:

- Revenue \$25MM+ OR
- Data of 50,000 Californian consumers, OR
- Derive 50%+ of revenue selling consumer data

# More than 1,000,000 businesses are affected by the CCPA

#### What?

CCPA expressly focuses on: Preventing 'misuse' of Californians' consumer data through increased transparency.

#### **New Consumer Data Rights:**

- To Request knowledge (visibility) of their data used by the business
- 2. To **Delete** their data used by the business
- 3. To Opt-out of the sale of their data

#### **Penalties**

Enforcement will levy fines (up \$7,500/event) injunctive, or class action relief/rights

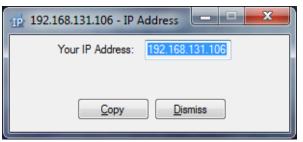
## Expansive Definition of Personal Information (PI)

"Information that identifies, relates to, describes, is capable of being associated with, or could reasonably be linked, directly or indirectly, with a particular consumer or household."

email address FredYellowtail@work.com



















## Discovery Mode / Data Mapping

- First step in privacy compliance
- Identify collection, flow and retention of PI
- Identify purpose of PI
- User friendly worksheet available to assist
- Third party vendors offer software solutions
- Recommend naming DPO or lead
- Review and update vendor agreements

#### II. SOURCES TO CONSIDER

When reviewing the questionnaire, please consider all possible sources in your operations. These sources may include your company, subsidiaries, sub-contractors, parent companies, service providers (e.g., hosting services, billing services, and analytic services), third-party vendors, employees, or customers. Each department of your company may implicate data privacy including human resources, finance, marketing, development, testing, and procurement.

#### III. QUESTIONS

Section 1 – Identifying Personal Information Under The CCPA  This section helps identify the collection of data that triggers obligations under the CCPA.		
1.	What data do you collect from or about consumers?  a. Please list each type of data from or about consumers that you collect, with reference to the broad definition of "collects," "collected," and "collection" above (see page 2). [Note: While the CCPA is limited to protecting personal information, please provide an exhaustive list of all data about consumers (which includes employees under the current statute) that you collect so that we may evaluate whether any particular data is or is not covered by the CCPA.]  b. For each answer to Question 1(a), please state the purposes (including commercial purpose or	
availab 3. explain	business purpose) for which the category of collected data is to be used.  Are there any types of data (listed in response to on 1(a)) that include information that is publicly ble at the time of or before collection?  If you answered "YES" to Question 2, please in the circumstances of the public availability and ollection of the data.	

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## Consumer Rights in CCPA

CA consumers can make a <u>verifiable</u> request regarding:

- 1.Right to know/access what PI is being collected and sold
- 2. Right to deletion
- 3. Right to opt-out

Businesses have 45 days to respond



#### How to comply:

- Set up a toll-free telephone # for requests
- Train employees to manage toll-free # or retain outside vendor to manage
- Train existing customer relations team about where to direct CCPA inquiries
- Create web page where consumers can submit requests
- Prepare template responses / ensure capabilities to provide data in portable form
- Compliance tracking

## Compliance Road Map

Create internal data privacy team, including point person, with relevant stakeholders

Obtain cyber insurance

Retain outside counsel

Consider retaining a company to assist with operations/IT

Conduct inventory of data collection and use

Prepare and update privacy policies and procedures

Prepare and update vendor agreements

Set up compliance mechanism for consumer access requests

Train personnel

Ensure PI is protected with adequate and reasonable security measures

Regular audits of privacy and security programs

## Privacy By Design

- Proactive Not Reactive; Preventative Not Remedial
- Privacy As Default Setting
- Embedded Privacy in Design
- Full Functionality Positive-Sum Instead of Zero Sum
- Transparency and Visibility Make it Open
- End-to-End Security Full Lifespan Protection
- Respect for the Privacy of the User Make it User-Centric

## Privacy By Design – AI Considerations

- Educate Engineers about Privacy
- Control Access to Data
- Minimum Data for Collection and Processing
- Strong De-Identification Anonymous Data
- Beware of Quasi-Identifiers
- Ability to Handle Erasure and Rectification Access
- Explain the Logic White Box vs. Black Box



## **Knobbe Martens**

## **Thank You!**

#### **Curtis Huffmire**

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## Breach Prep – Be Proactive

Identify and locate your data assets and understand the flow of data assets through your organization	□ Test, prove, and improve your Incident Response Plan
Institute tiered security measures to protect your data assets	Continue to update your Incident Response Plan to reflect necessary changes in organization, employees, contacts, etc.
<ul> <li>Adopt security measures consistent with recognized guidance and objectively assess the effectiveness</li> </ul>	Align other internal policies with your Incident Response Plan
■ Monitor your networks for intrusion and fix what you find	<ul> <li>Consider cyber insurance and understand your insurance policies; verify that third-party vendors have sufficient cyber insurance coverage</li> </ul>
Train employees to manage data responsibly	
Consider creating a role of Data Privacy Officer; decide who is responsible for organizing preparedness	Develop proactive relationships with outside counsel, investigative cyber security firms, relevant law enforcement agencies, and a PR consultant in the event of an incident; include contact information for key contacts in the Incident Response Plan
Create an Incident Response Plan; ensure key players have a printed copy of the plan	

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## How to Respond to Breach

#### Initial Assessment

- Scope, extent and nature of the incident; Is it malicious?
- Initiate incident response plan, assemble stakeholders and counsel

#### Internal Investigation (forensic, interviews)

- Minimize continuing damage
- Collect and preserve data (network image, logs, notes, and records)
- Keep records of ongoing attacks

#### Notifications

- Board of Directors, management team, key personnel
- Law enforcement, government agencies
- Partners, third parties (vendors)

#### • Prepare for:

- Consumer data breach notification
- Government investigations (State AGs, FTC, SEC, etc.)
- Negative publicity; Ancillary litigation

## **Data Privacy Services**

#### Our Services

- > Determine if certain data privacy laws apply to the client, and potential exemptions
- Compliance with federal, state and international laws
- > Audit privacy and security programs and procedures
- Prepare or update privacy policies and procedures in light of new and emerging laws (e.g., CCPA)
- > Train employees regarding compliance with data privacy laws
- > Audit vendor contracts to ensure key provisions included in the agreements related to data privacy issues
- > Data mapping (what personal information is collected, purpose, who its shared with, where is it stored etc.)
- Counseling regarding data breaches and responses to same
- Data privacy assessment for launch of new products that collect personal information (Internet of Things)
- Prepare compliance mechanism for consumer access requests
- Marketing and behavior analytics compliance
- Privacy by design
- Assist clients with cybersecurity due diligence reviews
- Advice to clients under investigation by federal/state agencies to properly address inquiries or investigations
- Handle litigation involving data breaches and data protection laws



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