Patent Law

Prof. Roger Ford
Monday, November 7, 2016
Class 18 — Infringement II: doctrine of equivalents; experimental & prior use

Obviousness exercise

Obviousness exercise

- \rightarrow Due *tonight* at 11:59 p.m.
- → <u>Please please</u> follow the instructions about how to submit your claim chart

Midterm exams

Midterm exams

- → Available for pickup tomorrow in registrar's office
- → Exam memo will be on the website by tomorrow as well
- → We will discuss them on <u>Wednesday</u>

Election day

Election day

- \rightarrow In NH, you can vote if:
 - US citizen, 18+
 - Domiciled in NH
 - Not in jail/prison on a felony
 - · Not declared incapacitated
- → NH has same-day registration
- → Can prove eligibility and ID or sign affidavit (and get photo taken)

Recap

Recap

- → Claim construction
- → Claim-construction procedure
- → Literal infringement

Today's agenda

Today's agenda

- → Infringement by equivalents
- → Experimental use
- → Prior commercial use

- → There are products that don't meet all limitations of a claim, but are very close
 - Maybe due to strategic behavior (pH = 3.95 when the claim requires 4-6)
 - Maybe due to unforeseeable technology (Velcro[®] instead of mechanical fastener)
 - · Maybe due to different design decisions
- → Infringement by equivalents fills this gap

- → Similar role to obviousness
 - Obviousness is there when anticipation doesn't work, but the prior art is very close
 - Equivalents is there when literal infringement doesn't work, but the accused product is <u>very close</u>

- → How to think about equivalents:
 - <u>Literal infringement</u>: You have to show that every element of the claim is literally met by the accused product
 - Except: Under the doctrine of equivalents, you may be able to show that one or more elements of the accused product are equivalents of the claim limitation
 - Except: Under prosecution history estoppel (or another doctrine), doctrine of equivalents may not be available

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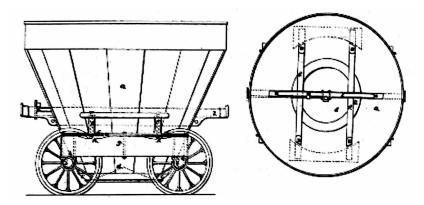
- → Preview: the basic rules
 - You still have to show infringement of every element or limitation of a claim (the all-elements rule)

- → Preview: the basic rules
 - Factual question: does the defendant's product contain an equivalent of a claim limitation?
 - The function/way/result test: Does the accused structure or step perform substantially the same function, in substantially the same way, to achieve substantially the same result?

- → Preview: the basic rules
 - Legal question: is there a reason to limit the doctrine of equivalents?
 - Four common reasons: prosecution history estoppel; the disclosurededication rule; the all-limitations rule; argument-based estoppel

Winans v. Denmead (1854)

→ Tech: rail car to carry coal with conical design



Winans v. Denmead (1854)

→ Accused product: inward-sloping section was eight-sided instead of being conical

Winans v. Denmead (1854)

- → Function/way/result test?
 - Function?
 - Way?
 - Result?

- → Prosecution is a negotiation between the applicant and the examiner
- → What are an applicant's options when an examiner rejects a claim?

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 - Argue
 - Amend
 - Appeal
 - Abandon

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- → What are an applicant's options when an examiner rejects a claim?
 - Argue claim construction
 - Amend prosecution history estoppel
 - Appeal
 - Abandon

- → Two amendments:
 - Two sealing rings, each with a lip on one side to hold out impurities
 - Magnetizable sleeve

- → Patent claim: Two sealing rings, with one lip each
- → Accused product: One sealing ring, with lips on both sides
 - Function?
 - Way?
 - Result?

- → Patent claim: Magnetizable sleeve
- → Accused product: Non-magnetizable sleeve
 - Function?
 - Way?
 - Result?

- → Two legal questions
 - Should the doctrine of equivalents apply to amendments for reasons other than prior art?
 - What is the scope of the doctrine of equivalents — is it a "complete bar" or a "flexible bar"?

- → Finally, prosecution history estoppel!
- → What's the principle?

- → Finally, prosecution history estoppel!
- → What's the principle?
 - If you originally claimed something broad, but then narrowed it to get a patent, you can't go back and get the broader thing through equivalents
 - The examiner thought there was something wrong with the original claim
 - It's an end run around examination

- → Finally, prosecution history estoppel!
- → What's the principle?
 - And this has little to do with the reason for the narrowing
 - Prior art
 - Written description/enablement
 - Any other reason that relates to patentability

- → Flexible bar versus complete bar
- → Argument for a complete bar?

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- → Argument for a complete bar?
 - Administrability the flexible-bar rule was unpredictable and promoted uncertainty

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- → Flexible bar versus complete bar
- → Argument for a flexible bar?
 - The prosecution history can tell us what a patent doesn't mean, not what it does mean
 - Just because you've surrendered some claim scope doesn't mean that you've suddenly written the perfect claim

Festo v. SKKK

→ New rule: when can you get equivalents even after a claim was narrowed during prosecution?

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 - If the equivalent was <u>unforeseeable</u>; or
 - If the reason for the amendment was tangential to the equivalent you're trying to capture; or
 - For "some other reason"

- → <u>Unforeseeable</u> technology
 - mechanical fastener → Velcro[®]
 - Wright brothers' wing warping → wing flaps or ailerons

- → <u>Tangential</u>: Primos, Inc. v. Hunter's Specialties
 - Claim: required a "plate"
 - Amendment: added "differentially spaced" limitation
 - Accused product: used a dome instead of a "plate"
 - Court: the amendment had nothing to do with the "plate," so it was tangential

- → Preview: the basic rules
 - Legal question: is there a reason to limit the doctrine of equivalents?
 - Four common reasons: prosecution history estoppel; the disclosurededication rule; the all-limitations rule; argument-based estoppel

→ Disclosure-dedication rule

- Another form of prosecution-history estoppel
- Johnson & Johnston (M&D 826-27): claim required "sheet of aluminum"
- Specification: one could use "other metals, such as stainless steel or nickel alloys"
- Court: patentee had disclosed and dedicated non-aluminum metals to the public

Infringement by equivalents

→ All-limitations rule

- The doctrine of equivalents cannot apply if it would vitiate an entire claim limitation
- Freedman Seating v. American Seating: a rotatably mounted seat cannot be the equivalent of a slidably mounted seat
- Asyst v. Emtrak: an unmounted part cannot be the equivalent of a mounted part
- Novartis v. Abbott Labs: a surfactant cannot be the equivalent of a nonsurfact

→ All-limitations rule

- But: Cadence v. Exela (Fed. Cir. 2015)
- Court: limitation requiring X before Y can be equivalent to Y before X
- "A holding that the doctrine of equivalents cannot be applied ... because it 'vitiates' a claim limitation is nothing more than a conclusion that the evidence is such that no reasonable jury could conclude that an element of an accused device is equivalent to an element called for in the claim..."

Infringement by equivalents

→ Argument-based estoppel

- An applicant who surrenders claim scope in argument before the examiner cannot regain that scope
- PODS v. Porta Stor: To overcome a prior-art rejection, the applicant argued: "As the Examiner acknowledges, the Dousset reference clearly lacks the teachings of the singular rectangular-shaped frame."
- Court: PODS cannot get a non-rectangular frame through the doctrine of equivalents

- → Two kinds of experimental use:
 - Common-law experimental use very narrow
 - § 271(e)(1) experimental use fairly broad, but basically only for pharmaceuticals and medical devices

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Madey v. Duke Univ.

- → Madey: Physics professor
 - Stanford → Duke → Hawaii
 - Owns laser patents
 - At Duke: ran free electron laser lab
 - After: Duke kept using his patents

Madey v. Duke Univ.

→ Issue: Is Duke's use "experimental" and so noninfringing?

Madey v. Duke Univ.

- → Issue: Is Duke's use "experimental" and so noninfringing?
 - Court: no, Duke infringes
 - Experimental use applies to uses "for amusement, to satisfy idle curiosity, or for strictly philosophical inquiry"
 - Not a commercial/noncommercial line
 - Duke is in the business of research

→ So why so narrow?

- \rightarrow So why so narrow?
 - No statutory hook whatsoever
 - Congress can create an exception if it wants
 - Universities are de facto commercial enterprises
 - Would harm incentive to create research tools

→ Should it be broader?

- → Should it be broader?
- → Arguments for yes:
 - Improvements and follow-on research
 - Experiments are unpredictable, and if one works, then a license is needed before commercialization
 - Experiments provide value to society and little added innovation incentive

- → Should it be broader?
- → Arguments for no:
 - Is a hard line-drawing problem: Which research is experimental?
 - Could hurt development of research tools
 - Real experiments won't be sued, so maybe the law is fine as is

- → Internationally: much broader
 - "[N]o doubt if a man makes things merely by way of bona fide experiment, and not with the intention of selling and making use of the thing so made for the purpose of which a patent has been granted, but with the view to improving upon the invention the subject of the patent, or with the view to seeing whether an improvement can be made or not, that is not an invasion of the exclusive rights granted by the patent. Patent rights were never granted to prevent persons of ingenuity exercising their talents in a fair way."

- → Two kinds of experimental use:
 - Common-law experimental use very narrow
 - § 271(e)(1) experimental use fairly broad, but basically only for pharmaceuticals and medical devices

(post-AIA) 35 U.S.C. § 271 — Infringement of Patent * * *

(e) (1) It shall not be an act of infringement to make, use, offer to sell, or sell within the United States or import into the United States a patented invention (other than a new animal drug or veterinary biological product (as those terms are used in the Federal Food, Drug, and Cosmetic Act and the Act of March 4, 1913) which is primarily manufactured using recombinant DNA, recombinant RNA, hybridoma technology, or other processes involving site specific genetic manipulation techniques) solely for uses reasonably related to the development and submission of information under a Federal law which regulates the manufacture, use, or sale of drugs or veterinary biological products.

- \rightarrow § 271(e)(1) experimental use:
 - Applies broadly to developing and testing pharmaceuticals and medical devices
 - Applies to most phases of the development process, if "appropriate" for regulatory submission
 - Might even apply to research tools!

(Post-AIA) Prior commercial use

Prior commercial use

- → Prior use is not normally a defense!
 - Prior use is relevant if it's prior art
 - Public use / on sale
 - Trade secrets may not be prior art!
 - (Also: invalidity requires clear and convincing evidence)

Prior commercial use

- → AIA: Prior commercial use <u>can be</u> a defense, but it's limited
 - Clear and convincing evidence
 - Only processes or things used in manufacturing or commercial processes
 - Only post-AIA patents
 - Only use that comes (a) more than a year before the effective filing date, and (b) before the § 102(b) grace period begins to run
 - Not transferrable between companies or <u>sites</u>
 - Penalty for unreasonable assertions: attorney fees

Prior commercial use

- \rightarrow So far, not much use
 - No reported cases in Westlaw

Next time

Next time

- → Indirect and joint infringement
- → Midterm exam
- → Election celebration / mourning