

Patent Law

- Slides for Module 6
- The specification – objective disclosure & best mode

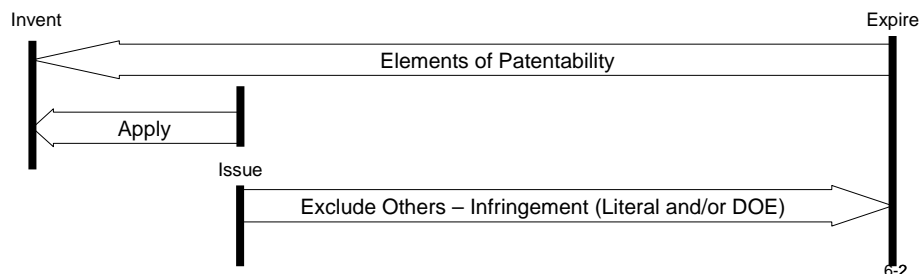
6-1

The elements of Patentability

- **Patentable subject matter**, i.e., patent eligibility
- **Useful/utility** (operable and provides a tangible benefit)
- **New** (statutory bar, novelty, anticipation)
- **Nonobvious** (not readily within the ordinary skills of a competent artisan at the time the invention was made)
- **Specification requirements** (enablement, written description, best mode, definiteness)

claims

"Reading" a claim onto prior art	Validity
"Reading" a claim onto its own specification	First step regarding §112
"Reading" a claim onto accused device or process	Infringement



6-2

Specification Requirements

- Enablement is the central doctrine
 - It fulfills the “public disclosure” part of the patent bargain
 - It helps delimit the boundaries of patent protection by ensuring that the scope of a patent claim accords with the extent of the inventor’s technical contribution
- Written description doctrine is in flux
 - Ordinarily operates to police priority when inventors amend their disclosures
 - New claims or new subject matter must be supported by the originally filed specification
 - Recent cases have applied the written description test as a more stand-alone requirement

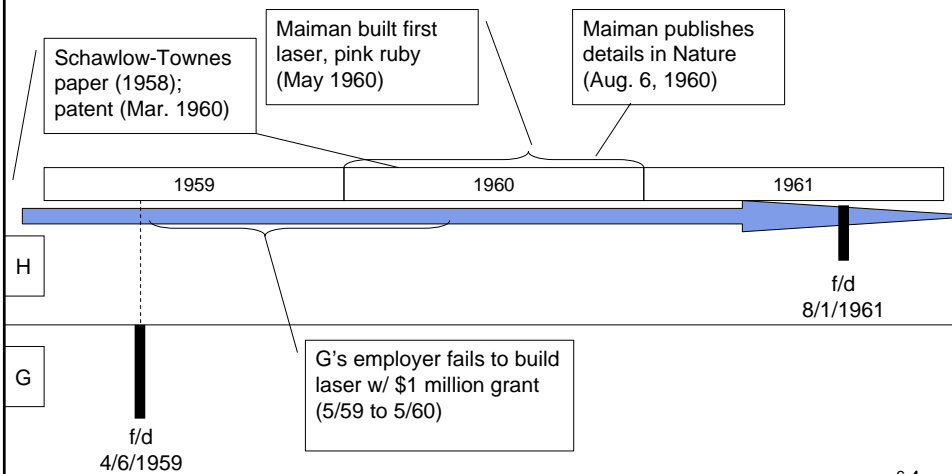
§ 112 ¶¶1-2 Language

[¶1] The specification shall contain a written description of the invention, and of the <u>manner and process of making and using it</u> , in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to <u>make and use</u> the same,	Written Description requirement. Enablement requirement.
and shall set forth the best mode contemplated by the inventor of carrying out his invention.	Best Mode requirement.
[¶2] The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.	Definiteness requirement.

6-3

Gould v. Hellwarth (CCPA 1973) (Lane, J.)

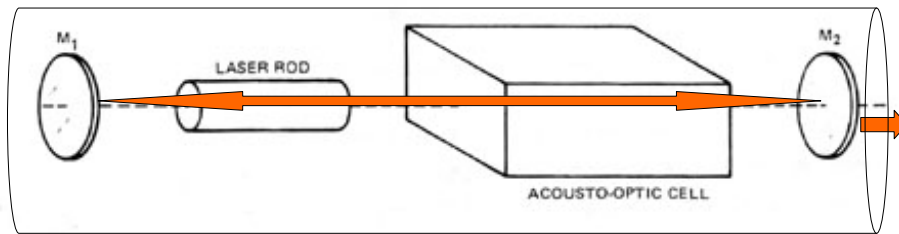
- Enablement to make
- There is more to the priority race than just being first
- Same Gould as in Gould v. Schawlow (CCPA 1966) (diligence case)



6-4

Gould v. Hellwarth (CCPA 1973) (Lane, J.)

- Subject of the counts (paraphrased)
 - “optical maser”
 - laser material (the lasing medium that is “pumped” with energy to produce an inversion)
 - means for pumping the material to a condition of stimulated emission (this means is usually a light or radiation source) [not shown below], and
 - reflecting means defining a radiation path in the material for repeatedly reflecting the stimulated emission energy radiated by the material between the reflecting means
 - altering means to change the amount of stimulated energy reflected by the reflecting means
 - “altering means” allows buildup of energy for a “giant pulse”
 - Called Q-switched because the altering means vary the electrical quality of “Q” of the “cavity” in which the working material is confined



6-5

Gould v. Hellwarth (CCPA 1973) (Lane, J.)

- H's expert Lengyel testified
 - As of 1959, the G disclosure did not have sufficient information for a PHOSITA to build an operative laser of any kind
 - One needs to know properties of the lasing material, temperature ranges, gas pressures, relational dimensions, minimum radiation necessary for excitation, discharge properties, properties of the cavity, reflectivity and curvature of the mirrors, etc.
 - G's disclosure shows details for various lasers, but does not disclose a complete set of operating parameters for any laser
 - The PTO and the Court took G's experts (Bloom & Fowles) to be in substantial agreement with Lengyel on these three points
 - It did not matter that Bloom & Fowles also testified that in their opinion the invention was enabled by G's 1959 disclosure
 - Their agreement with Lengyel on the three points above is inconsistent with their enablement opinion

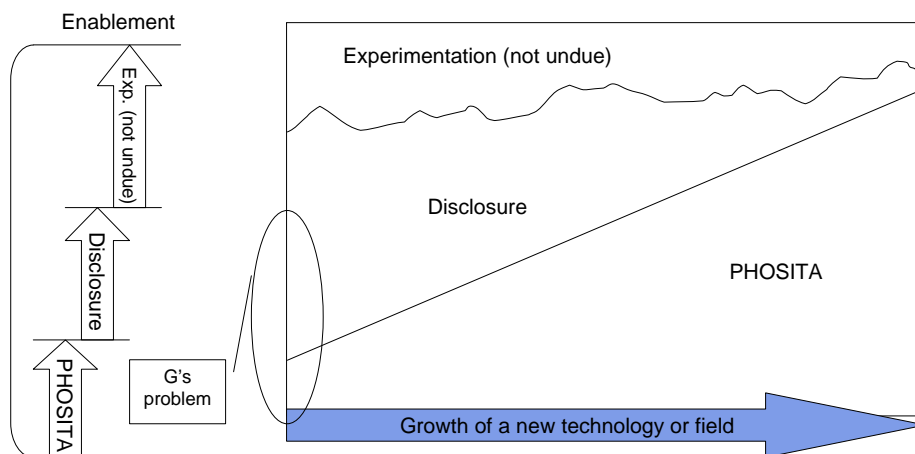
6-6

Gould v. Hellwarth (CCPA 1973) (Lane, J.)

- G's disclosure, painted in its best light, was insufficient
 - Sodium-mercury lasing medium disclosure is not sufficient – as of 1958 this medium has not been shown to work
 - TRG spent \$1mm trying to build it but failed
 - Disclosure's listing of ruby (generally) as alternative material is insufficient
 - Maiman had to investigate hard to understand that pink ruby, not regular ruby, worked
- But note the court fails to mention “undue experimentation”
 - “The application does not disclose a complete set of operating parameters for any lasers”
 - Arguably, this standard is too strict. In any event, it is no longer the law.
 - Need not disclose “all” parameters, just sufficient to preclude “undue experimentation”
- Does this mean the Townes-Schalow patent is not enabled?

6-7

Gould v. Hellwarth (CCPA 1973) (Lane, J.)



- PHOSITA knowledge is likely to go up over time in a nascent field
- But, various factors will determine tradeoff between disclosure and undue experimentation
 - Field of the art, complexity of the invention, unpredictability of the technology

6-8

Enablement – More points

- Could Gould have cured the defects in his specification? If so, how?
- Enablement does not require disclosure of how to mass produce
 - Federal Circuit - Christianson v. Colt (Fed. Cir. 1987)
 - patent is not a production document
 - It does not need to disclose data to mass produce
- Other
 - Deposits
 - Scientific truths? O-ring invention example
 - “If later scientific advances reveal that earlier understandings regarding the operation of a particular invention were incorrect, should the patent be invalidated as non-enabling?”
 - Diamond Rubber v. Consolidated Rubber (SCT 1911)

6-9

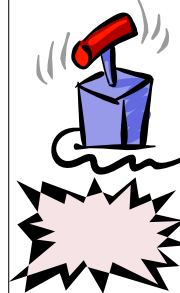
Enablement – other points

- “Mere germ of an idea” standard
 - Federal Circuit - Genentech v. Novo (Fed. Cir. 1997)
 - Enablement is not vague intimations of general ideas that may or may not be workable
 - “Tossing out the mere germ of an idea does not constitute enabling disclosure”
 - Need reasonable detail to enable
 - Where there is no disclosure of any specific (i) process, (ii) starting material or (iii) any of the conditions under which a process can be carried out, undue experimentation **is required**
 - It is the specification, not the PHOSITA knowledge, that **must supply the novel aspects** of an invention in order to constitute adequate enablement
- “Inoperable Embodiments”
 - All embodiments inoperable – no utility
 - Some embodiments inoperable – probably ok
 - Many embodiments inoperable – may show non-enablement
 - See Consolidated Elec. Light v. Mckeesport (1895)

6-10

Atlas Powder v. Dupont (Fed. Cir. 1984) (Baldwin, J.)

- Claim 1
- 1. An emulsion blasting agent **consisting essentially of**:
 - an aqueous solution of ammonium nitrate forming a discontinuous emulsion phase [small globules of explosive];
 - a carbonaceous fuel forming a continuous emulsion phase [the second liquid, an oil, in which the small globules are suspended];
 - an occluded gas dispersed within said emulsion and comprising at least 4% by volume, thereof at 70 degrees F. and atmospheric pressure [the entrapped air that sensitizes the blasting characteristic of the product]; and
 - a water-in-oil type emulsifying agent;
 - said carbonaceous fuel having a consistency such that said occluded gas is held in said emulsion at a temperature of 70 degrees F.



- **e-mul-sion** - A suspension of small globules of one liquid in a second liquid with which the first will not mix

6-11

Atlas Powder v. Dupont – an aside for transitional phrases

Type	Words	Meaning / Notes
Open	comprising <u>Also:</u> including containing characterized by	“having at least” The most common and desirable Does not exclude additional, unrecited elements or method steps
Closed	consisting of	“having only” Closes the claim to the inclusion of other elements (except impurities)
Partially closed	consisting essentially of	“having nothing else that affects operation” Limits the scope of the claim to the specified elements “and those that that do not materially affect the basic and novel characteristics”

- How is a PHOSITA supposed to understand claims if they use terms of art?
- Would a “patent attorney having skill in the art” standard make more sense for claim interpretation?

6-12

Atlas Powder v. Dupont – Undue Experimentation



- Dupont asserts
 - the disclosure lists numerous salts, fuels, and emulsifiers that could form thousands of emulsions
 - but no commensurate teaching as to which combination would work
 - There are inoperative embodiments in the combinations arising from the disclosed lists
 - Of 300 Atlas experiments, 40% “failed”
 - Only 2 of the listed emulsifiers worked, so construe claims to cover only these two
- The court did not buy this attack
 - A PHOSITA would know how to apply Bancroft’s rule – a basic principle of emulsion chemistry – to select from the disclosed lists and create the emulsion
 - Bancroft’s rule - Emulsion Stability Is Favored By Solubility In The Continuous Phase
 - The experiments were not failures, just not optimum under all conditions

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Atlas Powder v. Dupont – Undue Experimentation



- Claims are not necessarily invalid when there are inoperative combinations
 - “It is not a function of the claims to specifically exclude ... possible inoperative substances.”
 - As long as the number of inoperative embodiments is not **significant**, such that required experimentation becomes undue, then enablement is not defeated
- Prophetic examples are not automatically invalidating
 - Challenger needs to prove invalidity due to non-enablement with CCE
 - The disclosed examples are from specific experiments, slightly modified to be optimum, to facilitate enablement

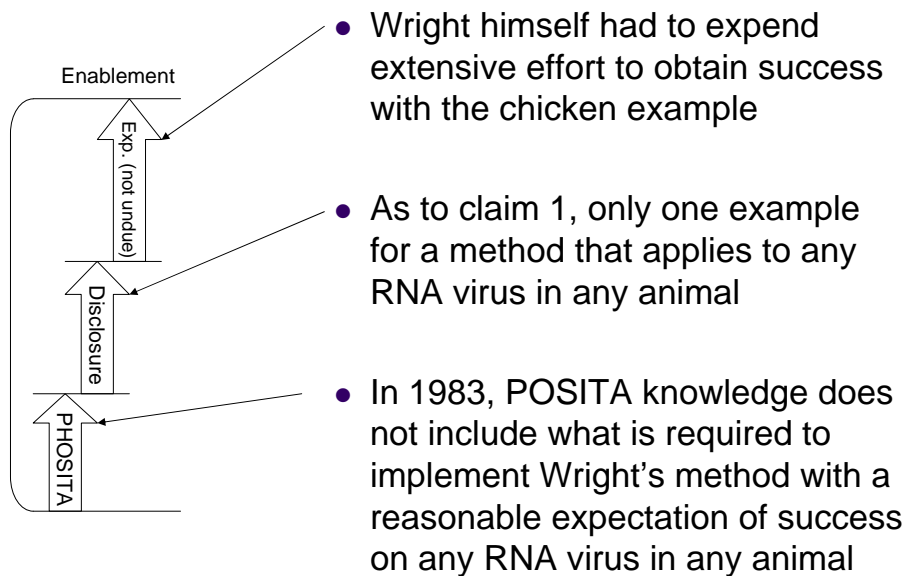
6-14

In re Wright (Fed. Cir. 1993) (Rich, J.)

- Claim goes to any and all non-pathogenic vaccines to RNA viruses in any animal
 - Would cover AIDS viruses, which have not yet proven workable.
 - Wright says some (of his) SIV and HIV vaccines have shown promise in animal models, so there is no undue experimentation because the technology is not as unpredictable as thought
 - The Court rejects this argument – such activity is *after Wright's filing date*
- Specification must show “reasonable expectation of success”
 - Does obviousness always imply enablement? Vice-versa?

6-15

In re Wright



6-16

Pharma Resources v. Roxane Labs. (Fed. Cir. 2007)

- Roxane successfully defends at Dist. Ct. via enablement on summary judgment . . .
 - “stable flocculated suspensions of megestrol acetate and methods for making such”
 - Par designing around a prior art implementation of the suspension
 - To make a suspension of megestrol acetate, vary the surfacants and wetting agents
- Wands factors
 - Unpredictability
 - Claim breadth

6-17

Enablement – undue experimentation – Wands factors

- quantity of experimentation necessary
- amount of direction or guidance provided
- presence or absence of working examples
- nature of the invention
- state of the prior art
- relative skill of those in the art
- **predictability or unpredictability of the art**
- **the breadth of the claims**

6-18

Written Description

- Doctrine arose to police adding claims after filing that were technically “enabled” but that seemed far divorced from the disclosed invention
- Note that claims may be amended and added through entire prosecution
 - Plus ability to add claims throughout continuation process
 - Allows applicant to view the growth of the industry and add highly specific claims
 - Written description can police—but not always.
 - PTO proposed regulation to limit the # of continuations.
 - Vigorously opposed by pharma and patent lawyers.
 - Regs struck down, but still pending. (*Tafas v. Kappos*)

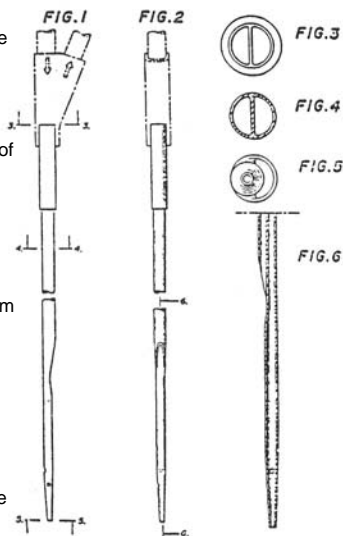
6-19

Vas-Cath v. Mahurkar (Fed. Cir. 1991) (Rich, J.)

- 7. A double lumen catheter having an elongated tube with a proximal first cylindrical portion enclosing first and second lumens separated by an internal divider, the proximal end of said elongated tube connecting to two separate connecting tubes communicating with the respective first and second lumens for the injection and removal of fluid, the first lumen extending from the proximal end of said elongated tube to a first opening at the distal end of said elongated tube, and the second lumen extending from the proximal end of said elongated tube to a second opening at approximately the distal end of said first cylindrical portion, wherein the **improvement**

comprises:

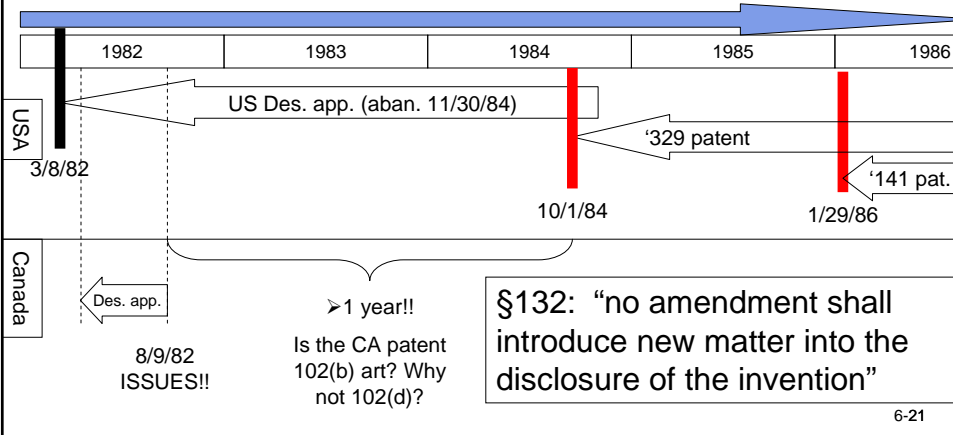
- said elongated tube having at its distal end a smooth conical tapered tip that smoothly merges with a second cylindrical portion of said elongated tube,
- and said second cylindrical portion enclosing the first lumen from the conical tapered tip to approximately the location of said second opening, said second cylindrical portion having a diameter substantially greater than one-half but substantially less than a full diameter of said first cylindrical portion,
- said divider in said first cylindrical portion being planar,
- the lumens being "D" shaped in cross-section in said first cylindrical portion,
- the elongated tube being provided with a plurality of holes in the region of the conical tapered tip, and
- said first cylindrical portion of the elongated tube smoothly merging with said second cylindrical portion of the elongated tube.



6-20

Vas-Cath v. Mahurkar (Fed. Cir. 1991) (Rich, J.)

- Ultimate effective f/d for Mahurkar's two utility patents on the catheter is based on priority [red bars] from a design patent application
 - Design patent applications consist almost exclusively of the drawings
 - Only a short "claim" is included:
 - "The ornamental design for a _____, as shown [and described]."
- How does this raise a §112 ¶1 Written Description issue?



6-21

Vas-Cath v. Mahurkar (Fed. Cir. 1991) (Rich, J.)

- Written description comes up for
 - later filed claims
 - continuations under §119 [provisional] or §120 [non-provisional]
- Include drawings?
- Written description versus §112 ¶2 "definiteness" requirement
 - Doesn't "definiteness" imply a "written description"
 - Different purposes
 - definiteness puts public on notice of claim scope
 - Written description "guards against the inventor's overreaching" in future added claims

6-22

Vas-Cath v. Mahurkar (Fed. Cir. 1991) (Rich, J.)

- Written description versus §112 ¶1 enablement requirement
 - Possible to enable but not describe
 - But, it is also possible to describe but not enable (example – chemical formula)
 - Outside of “policing” new matter – are these distinctions worth much?
- Formulation of the traditional “new matter policing” written description test
 - Does the spec “reasonably convey[] to the artisan that the inventor had possession at [the] time [of filing] of the later claimed subject matter”?

6-23

Vas-Cath v. Mahurkar (Fed. Cir. 1991) (Rich, J.)

- Outcome?
 - 112.1 met. Claimed subject matter could be derived by a PHOSITA from the drawings—thus, drawing “conveyed with reasonable clarity to those of ordinary skill that [the inventor] had in fact invented the catheter recited in those claims.”
- But exactly where does enablement end and w/d start?

6-24

Written description – genus / species

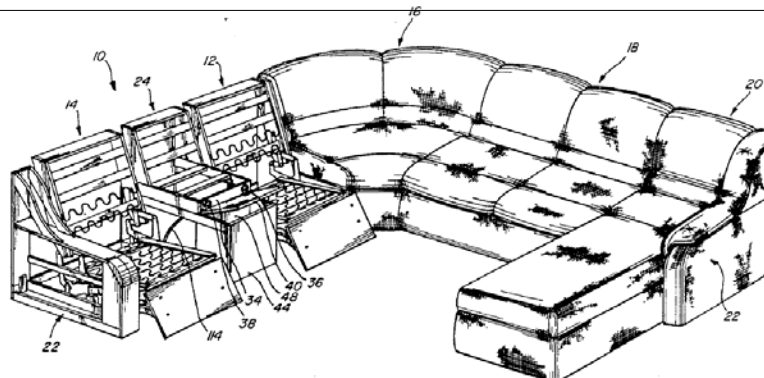
- It has specifically been held that the disclosure of a genus and a species of a subgenus within that genus
- **is not**
- sufficient description of the subgenus to comply with the description requirement of 35 U.S.C. 112,
- **unless**
- there are specific facts which lead to a determination that a subgenus is implicitly described.

6-25

Gentry Gallery v. Berkline Corp., 134 F.3d 1473 (Fed. Cir. 1998)

1. A sectional sofa comprising:

a pair of reclining seats disposed in parallel relationship with one another in a double reclining seat sectional sofa section being without an arm at one end . . . ,
each of said reclining seats having a backrest and seat cushions and movable between upright and reclined positions . . . ,
a *fixed console* disposed in the double reclining seat sofa section between the pair of reclining seats and with the console and reclining seats together comprising a unitary structure,
said console including an armrest portion for each of the reclining seats; said arm rests remaining fixed when the reclining seats move from one to another of their positions,
and a *pair of control means*, one for each reclining seat; *mounted on the double reclining seat sofa section* . . .



6-26

Gentry Gallery v. Berkline Corp., 134 F.3d 1473 (Fed. Cir. 1998)

- Like Lilly, Judge Lourie applies written description to originally filed claims
- But, here, patent on furniture
 - Important, because not just a biotech case.
- Holds that “an applicant complies with the written description requirement ‘by describing the invention, with all its claimed limitations.’”
 - But we know under enablement, this is not required? Has Judge Lourie impermissibly expanded the reach of written description?
- And why is written description a question of fact?

6-27

Gentry Gallery – note on upcoming en banc case

35 U.S.C. § 112 Specification.

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same, and shall set forth the best mode contemplated by the inventor of carrying out his invention.

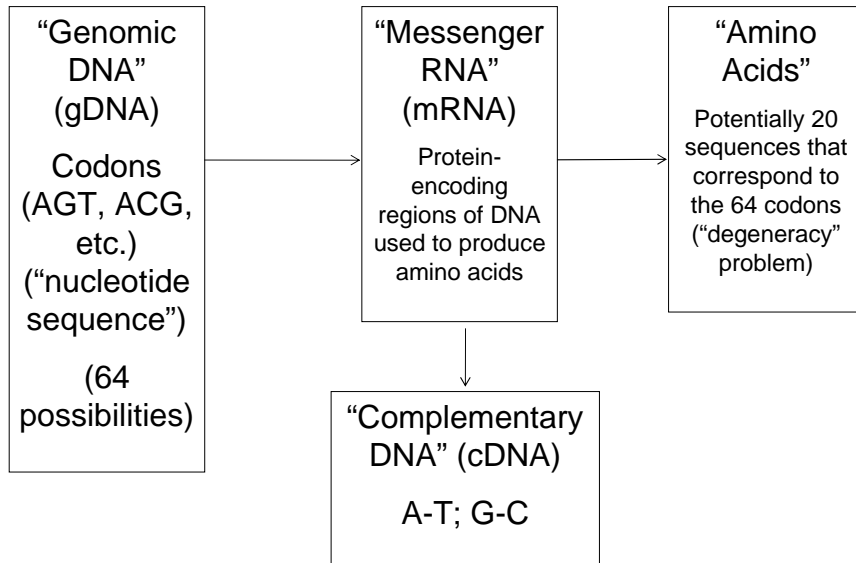
(a) Whether 35 U.S.C. § 112, paragraph 1, contains a written description requirement separate from an enablement requirement?; and

(b) If a separate written description requirement is set forth in the statute, what is the scope and purpose of the requirement?

6-28

UC vs. Eli Lilly (Fed. Cir. 1997) (Lourie, J.)

- Recombinant DNA technology (yet again)



6-29

UC vs. Eli Lilly (Fed. Cir. 1997) (Lourie, J.)

- Judge Lourie's (now overruled) opinion in In re Deuel
- Held that merely disclosing a structurally similar amino acid plus a method of obtaining the cDNA sequence encoding for that amino acid is not sufficient for 103 purposes.
- Lilly is the mirror image of Deuel
 - Namely, merely disclosing the same as above in one's own patent spec is not sufficient for 112.1 purposes
 - Cannot rely on "enablement" [since the method is not "undue experimentation"], so Lourie shoves it under written description

6-30

UC vs. Eli Lilly (Fed. Cir. 1997) (Lourie, J.)

- This is a large shift in the use of written description, because now it applies to originally filed claims!
 - For this reason, many have called it a “super-enablement” requirement
- Is “super-enablement” sensible after In re Kubin?
 - Kubin overruled Deuel. So now material may count for 103 purposes, but it will not satisfy 112.1. Is this sensible?
 - Ariad v. Lilly (pending en banc at CAFC) – will reconsider whether the Lilly rule should stay in place

6-31

UC vs. Eli Lilly (Fed. Cir. 1997) (Lourie, J.)

- Why is there no w/d here?
- '525 patent discloses cDNA sequences in rats, but claims much more broadly
- General rule: A disclosure of single species will not necessarily support a species.
 - But if may if species sufficiently enables genus, e.g., through know methods of obtaining other members of the genus.
- But, here, court says enablement not determinative.
- “What is required is a description of the DNA itself.”

6-32

Written Description Debate – <u>Enzo Biochem v. Gen-Probe</u> (Fed. Cir. 2002)	
§ 112 ¶1 Language	
[¶1] The specification shall contain a written description of the invention, and of the <u>manner and process of making and using it</u> , in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to <u>make and use</u> the same,	Written Description requirement. Enablement requirement.
<ul style="list-style-type: none"> US Brief as amicus curiae in support of rehearing en banc <ul style="list-style-type: none"> This court rejected the "straightforward reading" of the statute in <i>Vas-Cath</i> because the written description (WD) doctrine was a priority control, not the general disclosure doctrine of enablement. . . . Within the proper purpose of WD, <i>Vas-Cath</i> makes sense. When applied outside the priority context as a general disclosure doctrine, however, WD cannot depart from the enablement test without replacing it. Thus, the United States advocates application of the statutory standard of enablement 	
6-33	

Written Description Debate – <u>Enzo Biochem v. Gen-Probe</u> (Fed. Cir. 2002)	
§ 112 ¶1 Language	
[¶1] The specification shall contain a written description of the invention, and of the <u>manner and process of making and using it</u> , in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to <u>make and use</u> the same,	Written Description requirement. Enablement requirement.
<ul style="list-style-type: none"> From the majority who voted to not hear <u>Enzo</u> en banc <ul style="list-style-type: none"> “The dissenters believe that the written description requirement is simply a requirement for enablement. With all due respect, that is incorrect. The <i>complete</i> statutory provision is as follows . . . note the comma . . . and the “and” . . . Statute does not say a “written description . . . [to] police priority” How do you read the statute? 	
6-34	

Written Description Debate – <u>Enzo Biochem v. Gen-Probe</u> (Fed. Cir. 2002)	
§ 112 ¶1 Language	
[¶1] The specification shall contain a written description of the invention, and of the manner and process of making and using it , in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same,	Written Description requirement. Enablement requirement.
<ul style="list-style-type: none"> • The <u>Enzo</u> standard <ul style="list-style-type: none"> • “[when] gene material has been defined only by a statement of function or result . . . such a statement alone [does] not adequately describe the claimed invention” unless the <ul style="list-style-type: none"> • <i>functional characteristics [are] coupled with a known or disclosed correlation between function and structure</i> • “an adequate written description of genetic material requires a precise definition, such as by structure, formula, chemical name, or physical properties, not a mere wish or plan for obtaining the claimed chemical invention” • “The disclosure must allow one skilled in the art to visualize or recognize the identity of the subject matter purportedly described” 	
6-35	

Written Description Debate – <u>Enzo Biochem v. Gen-Probe</u> (Fed. Cir. 2002)	
§ 112 ¶1 Language	
[¶1] The specification shall contain a written description of the invention, and of the manner and process of making and using it , in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same,	Written Description requirement. Enablement requirement.
<ul style="list-style-type: none"> • The <u>Enzo</u> standard (cont’d) <ul style="list-style-type: none"> • Application of the written description requirement, however, is not subsumed by the "possession" inquiry. A showing of "possession" is ancillary to the <i>statutory</i> mandate that "[t]he specification shall contain a written description of the invention," and that requirement is not met if, despite a showing of possession, the specification does not adequately describe the claimed invention. • Where does that leave patent law? 	
6-36	

Factors relevant to Possession in PTO

- aRTP
- Disclosure of drawings or structural formulas
- Sufficient relevant identifying characteristics: complete structure, partial structure, physical and/or chem properties, functional characteristics when coupled w/ know relationship b/t function and structure
- Method of making claimed invention (???)
- Level of skill and knowledge in art
- Predictability in the art

6-37

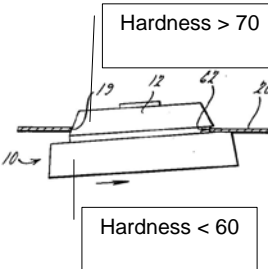
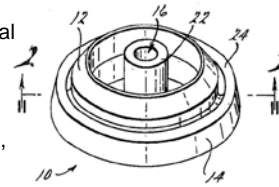
Best Mode

- The specification “shall set forth the best mode contemplated by the inventor of carrying out his invention”
- This requires disclosure in the patent specification of any specific instrumentalities or techniques that the inventor recognized at the time of filing as the best way of “carrying out” the invention
- Thus, the specification must disclose certain of the inventor’s trade secrets for practicing the invention.
 - Are critics right that inventors will always disclose trade secrets for fear that others will patent them and b/c of inequitable conduct?

6-38

Best Mode - Chemcast v. Arco (Fed. Cir. 1990) (Mayer, J.)

- 1. A grommet for sealing an opening in a panel, said grommet comprising
 - an annular base portion [14] having a continuous circumferential and axial extending sealing band surface,
 - an **annular locking portion** [12] having a continuous circumferential and axial extending ridge portion approximately the same diameter as said sealing band surface,
 - said sealing band surface constituting an axial extending continuation of said ridge portion,
 - said locking portion and said base portion being in contact with each other and integrally bonded together,
 - said base portion comprising an elastomeric material and said **locking portion being more rigid than said base portion**,
 - whereby when the grommet is installed in a panel opening, the locking portion is inserted through the opening to a position on the opposite side of the panel from the base portion locking the grommet in place, and said sealing band surface forms a complete seal continuously around the entire inner periphery of the panel opening.
- 6. The grommet as defined in claim 1 wherein the material forming said base portion has a durometer hardness reading of less than 60 Shore A and the material forming said locking portion has a durometer hardness reading of more than 70 Shore A.



6-39

Best Mode - Chemcast v. Arco (Fed. Cir. 1990) (Mayer, J.)

- District Court
 - Claim 6 is invalid due to failure to disclose best mode
 - Specifically due to failure to specify
 - the particular type
 - hardness and
 - supplier and trade name of the material used to make the locking portion of the grommet

6-40

Best Mode - Chemcast v. Arco (Fed. Cir. 1990) (Mayer, J.)

- The disclosure from the patent
 - The annular locking portion 12 of the sealing member 10 is preferably comprised of a rigid castable material, such as a castable resinous material, either a thermoplastic or thermosetting resin, or any mixtures thereof, for example, polyurethane or polyvinyl chloride. The portion 12 also should be made of a material that is sufficiently hard and rigid so that it cannot be radially compressed, such as when it is inserted in the opening 19 in the panel 20. ***Materials having a durometer hardness reading of 70 Shore A or harder are suitable in this regard.***

6-41

Best Mode - Chemcast v. Arco (Fed. Cir. 1990) (Mayer, J.)

- “The [durometer] standard covers type A, B, C, D, DO and OO durometers. The most popular durometers are types A and D. Type A is often used for rubber and soft plastics while type D is used for harder materials such as bowling balls and thermo plastics”



6-42

- Two-Step test

- First step (subjective)
 - (a) Ask whether the inventor ***knew of a mode of practicing the invention that he or she considered to be better than any other***
 - Applies even if the inventor did not originate that mode
 - (b) If the inventor in fact contemplated such a preferred mode, did the inventor ***conceal that best mode by not disclosing it***
 - Note: concealment may be inadvertent.
 - Unless the filing is a continuation application, in which case there is no requirement to update the disclosure

6-43

- Second Step

- (a) Compare what the inventor knew with what she disclosed
 - The disclosed best mode must be understandable to a POSITA
 - This is a question of the sufficiency of the disclosure concerning the mode that the inventor thought was best
 - Ask how a POSITA would have understood the disclosure
- (b) Compare to the scope of the claims – does the nondisclosed best mode fall
 - *within the claim scope*
 - or
 - *Is it “necessary to carry out” the claimed invention [NOTE – this is recently articulated and somewhat disputed “expansion” as to what the best mode requirement covers]*

6-44

Best Mode - <u>Chemcast v. Arco</u> (Fed. Cir. 1990) (Mayer, J.)		
Element	Chemcast	Fed. Cir.
Subjective	Even if Rubright had a "best mode" there was no concealment of it	<p>13 findings by district court make for a compelling factual record</p> <ul style="list-style-type: none"> - broad description in specification of locking material, yet Rubright used a specifically developed and trade-name identified material, R-4467 - only one embodiment - different hardness measurement, "Shore D" when claim recites "Shore A" - Rubright did not know himself the formula, composition or method of manufacture of R-4667, so this obligates him to disclose supplier and trade name
Objective		
- claim scope?	No material claimed in claim 6 for locking portion	<p>Chemcast confused best mode w/ enablement</p> <ul style="list-style-type: none"> - broad claim, but preferred material is an embodiment within the scope of the claims - claim specifies some attributes of the locking portion material, such as durometer hardness
- how would PHOSITA take the disclosure?	Given PHOSITA skill, best mode is implicitly disclosed	<p>Confuses enablement with best mode</p> <ul style="list-style-type: none"> - given the different hardness measuring scales, a PHOSITA would not take the specification as having disclosed the preferred embodiment
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Objective Disclosure Exercise

- Rameau is an inventor and licensed United States patent agent. Late in the evening on December 31, 1997, he conceives of the idea of an improved champagne corkscrew. He subsequently prepares a sales brochure with a detailed and complete description of the new corkscrew for distribution at a regional wine festival held in Napa, California, on September 10, 1998.
- Two days before the festival, Rameau considers whether he should file a patent application on the corkscrew. Although 35 U.S.C. § 102(b) provides him with a one year grace period in the United States, he recalls that most foreign patent systems are absolute novelty regimes. Distribution of the sales brochures could thus be fatal to Rameau's potential patent rights elsewhere. Rameau hastily drafts an application that evening and files it at the United States Patent and Trademark Office the next day, on September 9, 1998.
- At the festival, Rameau distributes over 1500 brochures to prospective customers. A few days later, Rameau reviews his patent application and realizes that he did not describe grasping arms which seize the champagne stopper, a key feature of the invention that the sales brochure detailed. Rameau very much doubts that skilled workers in the field could make or use his invention without this additional information.
- How may Rameau modify his patent specification in order to meet § 112, first paragraph? Does Rameau possess any other options in order to fulfill the requirements of § 112, first paragraph?

