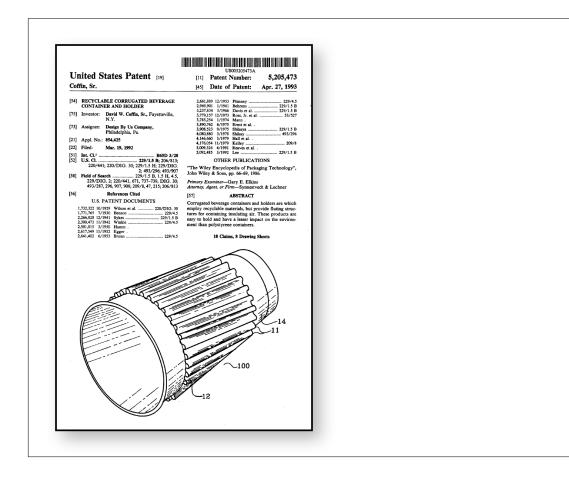


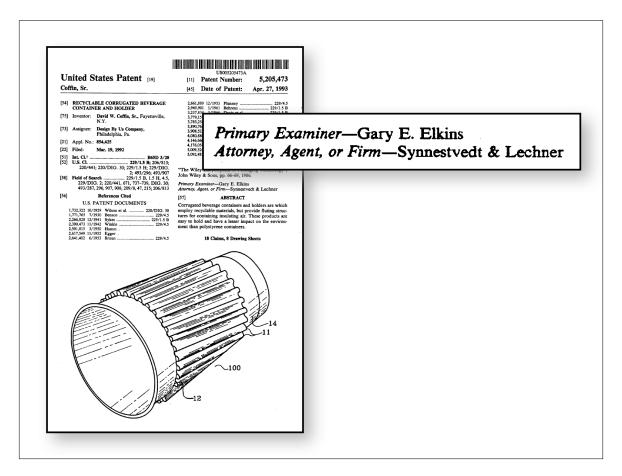
# Today's agenda

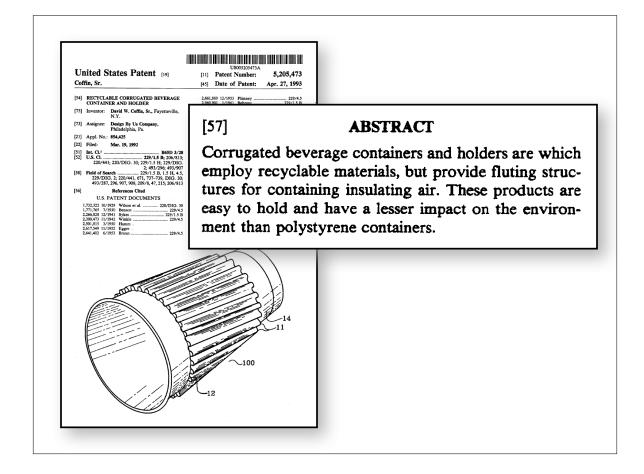
 $\rightarrow$  Recap

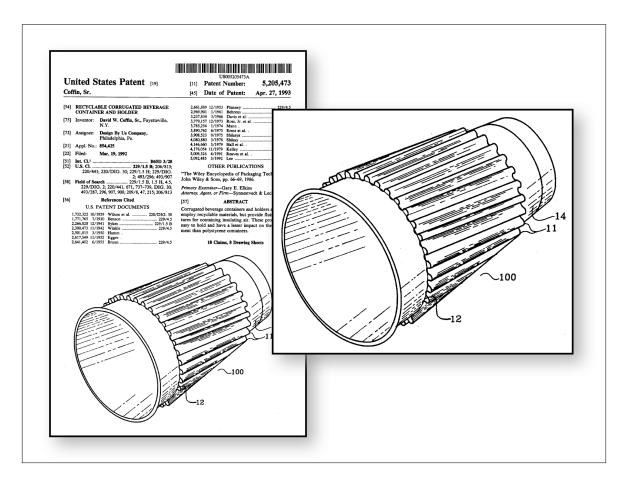
- → Architecture of the patent document (continued)
- → Mechanics and formalities of patent claims
- → Claim strategy
- $\rightarrow$  Claim-drafting exercise

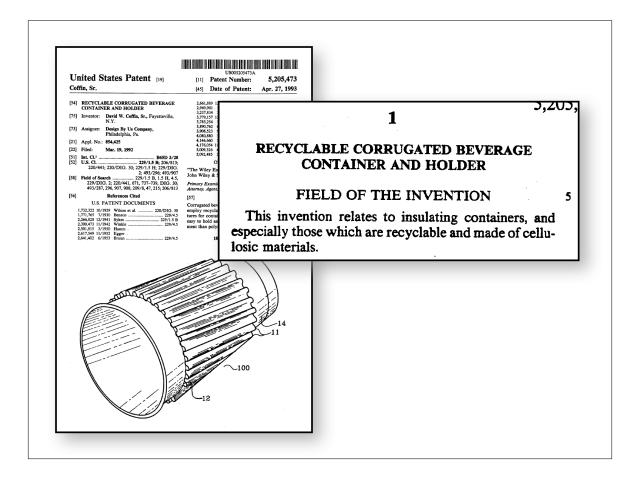
# Architecture of the patent document

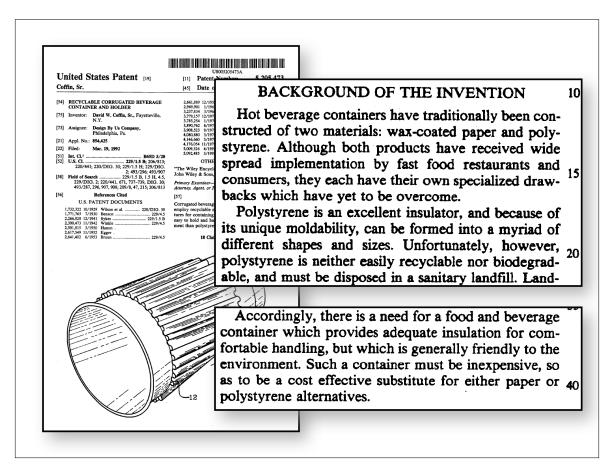


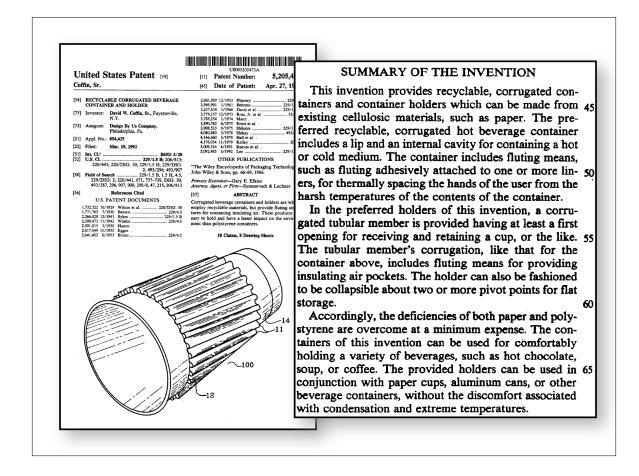


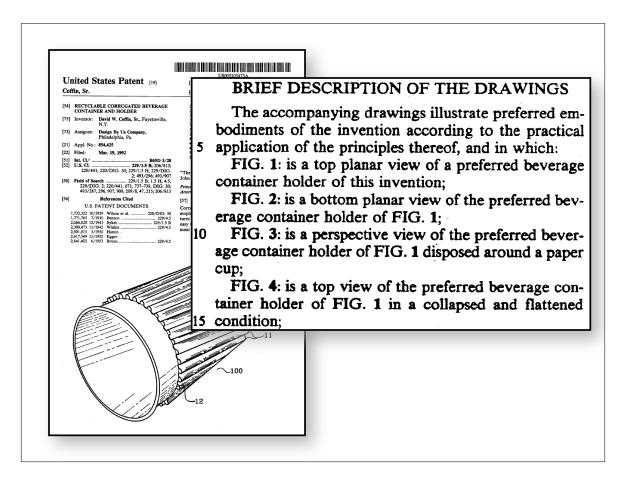


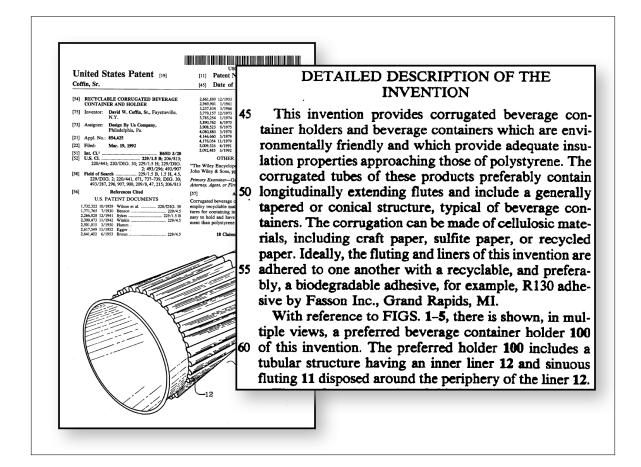


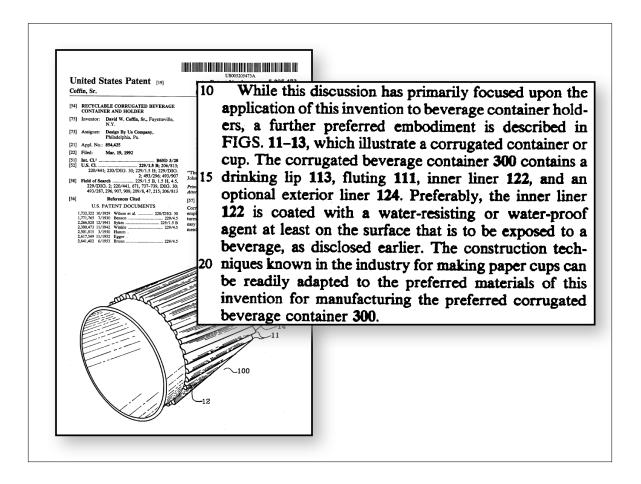




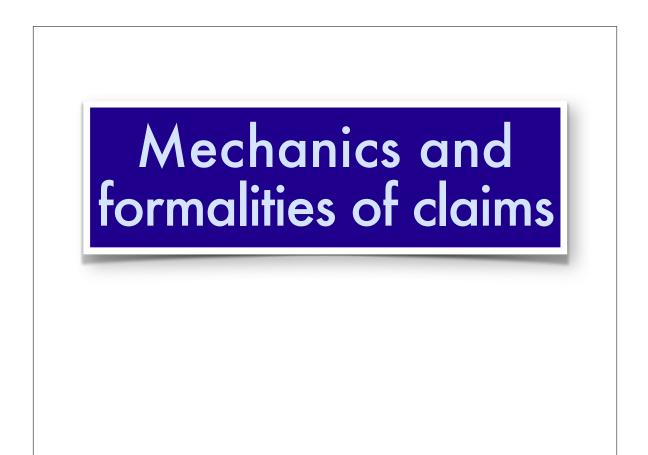








United States Patent [19] Coffin. Sr.	1. A recyclable, insulating beverage container holder			
<ul> <li>[54] RECYCLABLE CORRUGATED BEVERAGE CONTAINER AND HOLDER</li> <li>[75] Inventor: David W. Coffin, Sr., Favetteville.</li> </ul>	comprising a corrugated tubular member comprising cellulosic material and at least a first opening therein for			
N.Y. [73] Assignce: Design By Us Company, Philadelphia, Pa.	receiving and retaining a beverage container, said cor			
<ul> <li>[21] Appl. No.: 854,425</li> <li>[22] Filed: Mar. 19, 1992</li> <li>[51] Int. Cl.<sup>3</sup></li></ul>	rugated tubular member comprising fluting means for			
<ul> <li>[52] U.S. Cl</li></ul>	The wife said containing insulating air; said fluting means comprising			
229/DIG. 2; 220/441, 671, 737-739, DIG. 30; 493/287, 296, 907, 908; 209/8, 47, 215; 206/813           [56]         References Cited	The provide the provided of th			
U.S. PATENT DOCUMENTS 1,732,322 10/1929 Wilson et al	ending demosively attached to a mich with a recyclable endrosister attached to a mich with a recyclable endrosister attached to a mich with a recyclable			
2,266,823 12/1941 Sykes	easy to hold and ment than polystyrene containers. 18 Claims, 8 Drawing Sheets			
and the second se	4. The holder of claim 1, wherein said tubular member comprises at least two pivot axes for permitting said tubular member to fold into a flattened condition.			
5. The holder of claim 1, wherein a surface of said liner is coated with a water-resisting agent.				
6. The holder of claim 1, wherein said fluting com-				
prises sinuous fluting.				
	8. A recyclable collapsible beverage container holde			
comprising a corrugated tube				



We claim: 1. A method of placing an order for an item comprising: under control of a client system, displaying information identifying the item; and in response to only a single action being performed, sending a request to order the item along with an identifier of a purchaser of the item to a server system; under control of a single-action ordering component of the server system, receiving the request; retrieving additional information previously stored for the purchaser identified by the identifier in the received request; and generating an order to purchase the requested item for the purchaser identified by the identifier in the received request using the retrieved additional information; and fulfilling the generated order to complete purchase of the

item

whereby the item is ordered without using a shopping cart ordering model.

We claim:	
<b>1</b> . A method of placing an order for an item comprising:	Preamble
under control of a client system,	
displaying information identifying the item; and	
in response to only a single action being performed,	
sending a request to order the item along with an	
identifier of a purchaser of the item to a server	
system;	
under control of a single-action ordering component of	
the server system,	
receiving the request;	
retrieving additional information previously stored for	
the purchaser identified by the identifier in the	
received request; and	
generating an order to purchase the requested item for the	
purchaser identified by the identifier in the received	
request using the retrieved additional information; and	
fulfilling the generated order to complete purchase of the	
item	
whereby the item is ordered without using a shopping cart	
ordering model.	
-	

We claim:	
<b>1</b> . A method of placing an order for an item comprising:	Preamble
under control of a client system,	<b>—</b>
displaying information identifying the item; and	Transition
in response to only a single action being performed,	
sending a request to order the item along with an	
identifier of a purchaser of the item to a server	
system;	
under control of a single-action ordering component of	
the server system,	
receiving the request;	
retrieving additional information previously stored for	
the purchaser identified by the identifier in the	
received request; and	
generating an order to purchase the requested item for the	
purchaser identified by the identifier in the received	
request using the retrieved additional information; and	
fulfilling the generated order to complete purchase of the	
item	
whereby the item is ordered without using a shopping cart ordering model.	
-	

<ul> <li>We claim:</li> <li>1. A method of placing an order for an item comprising:</li> <li>under control of a client system, displaying information identifying the item; and in response to only a single action being performed, sending a request to order the item along with an identifier of a purchaser of the item to a server system;</li> <li>under control of a single-action ordering component of the server system, receiving the request; retrieving additional information previously stored for the purchaser identified by the identifier in the received request; and</li> <li>generating an order to purchase the requested item for the purchaser identified by the identifier in the received request using the retrieved additional information; and fulfilling the generated order to complete purchase of the item</li> <li>whereby the item is ordered without using a shopping cart ordering model.</li> </ul>	Preamble Transition Body
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<b>1</b> . un	A method of placing an order for an item comprising: der control of a client system, displaying information identifying the item; and in response to only a single action being performed, sending a request to order the item along with an identifier of a purchaser of the item to a server system:	Preamble Transition Body
un	<ol> <li>2. The method of claim 1 wherein the displaying information includes displaying information indicating single action.</li> <li>3. The method of claim 1 wherein the single actio clicking a button.</li> <li>4. The method of claim 1 wherein the single actio</li> </ol>	the n is
ge	<ul><li>speaking of a sound.</li><li>5. The method of claim 1 wherein a user of the cl system does not need to explicitly identify themselves w placing an order.</li></ul>	
	item	Dependent
	nereby the item is ordered without using a shopping cart ordering model.	claims

## Mechanics and formalities of claims

### $\rightarrow$ Discussion questions:

- Why have multiple claims?
- When are broad claims helpful?
- When are narrow claims helpful?

# Mechanics and formalities of claims

### $\rightarrow$ Preamble

- Identifies kind of invention
- Usually not read to limit claim scope, but can be, so don't be too clever

## Mechanics and formalities of claims

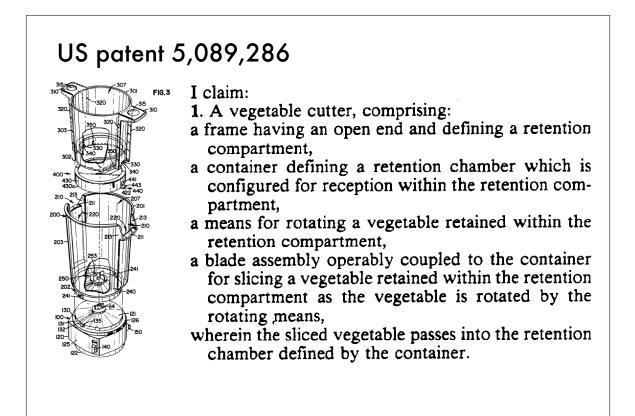
 $\rightarrow$  Transition

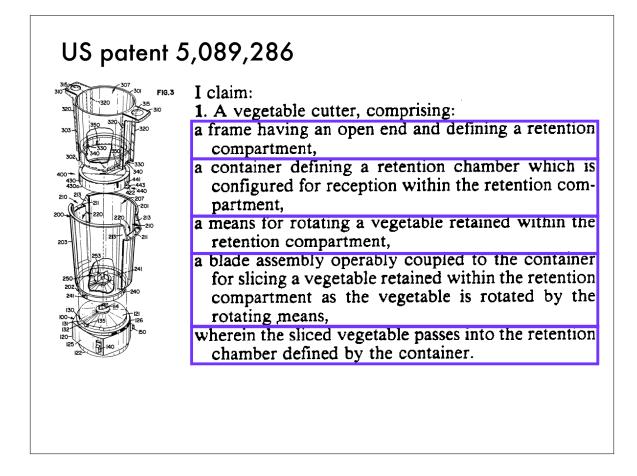
- "Comprising": must include <u>at least</u> the listed elements
- "Consisting of": must contain <u>only</u> the listed elements
- "Consisting essentially of": must contain only the listed elements and others that do not substantially change the invention

# Mechanics and formalities of claims

### $\rightarrow$ Body

- List of elements
- Explanation of how the elements relate
- Single sentence
- Clear and unambiguous internal references



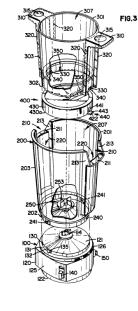


## Mechanics and formalities of claims

### → All-Elements Rule:

 To infringe, the defendant's product or process must include every element of a single patent claim, either literally or through the doctrine of equivalents

### US patent 5,089,286



I claim:

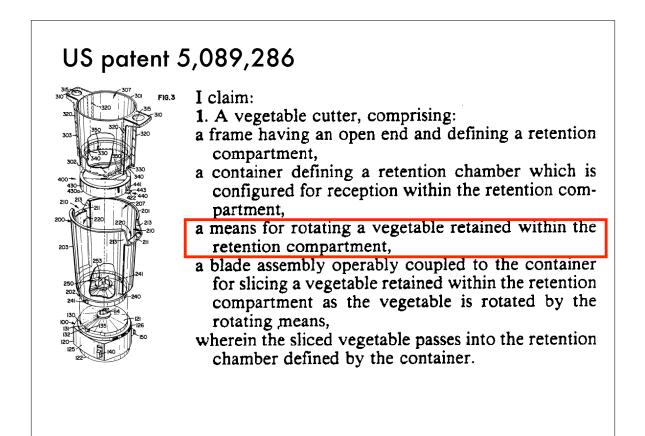
- 1. A vegetable cutter, comprising:
- a frame having an open end and defining a retention compartment,
- a container defining a retention chamber which is configured for reception within the retention compartment,
- a means for rotating a vegetable retained within the retention compartment,
- a blade assembly operably coupled to the container for slicing a vegetable retained within the retention compartment as the vegetable is rotated by the rotating means,
- wherein the sliced vegetable passes into the retention chamber defined by the container.

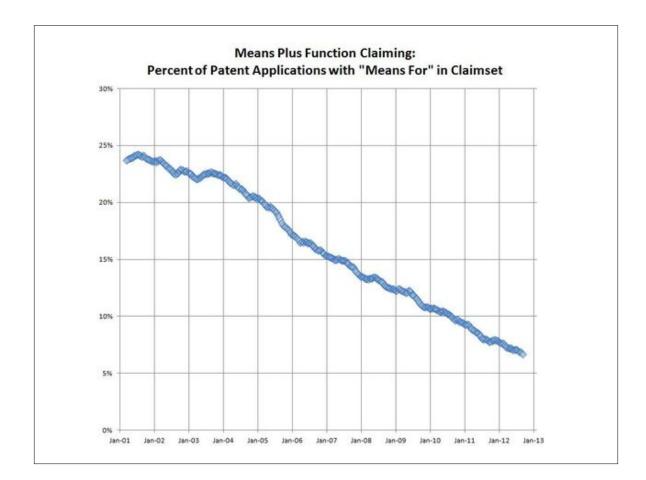
#### US patent 5,089,286 I claim: **1**. A vegetable cutter, comprising: a frame having an open end and defining a retention compartment, a container defining a retention chamber which is configured for reception within the retention compartment. a means for rotating a vegetable retained within the retention compartment, a blade assembly operably coupled to the container for slicing a vegetable retained within the retention compartment as the vegetable is rotated by the rotating means, wherein the sliced vegetable passes into the retention chamber defined by the container.

# Mechanics and formalities of claims

→ Means-plus-function claims – 35 U.S.C. § 112(f):

"An element in a claim for a combination may be expressed as a **means or step for performing a specified function without the recital of structure, material, or acts in support thereof**, and such claim shall be construed to cover the **corresponding structure, material, or acts described in the specification** and **equivalents** thereof."





# Mechanics and formalities of claims

 $\rightarrow$  Jepson claims – 35 C.F.R. § 1.75(e):

Where the nature of the case admits, as in the case of an **improvement**, any independent claim should contain in the following order:

(1) A preamble comprising a **general description of all the elements or steps** of the claimed combination which are **conventional or known**,

(2) A phrase such as "wherein the **improvement comprises**," and

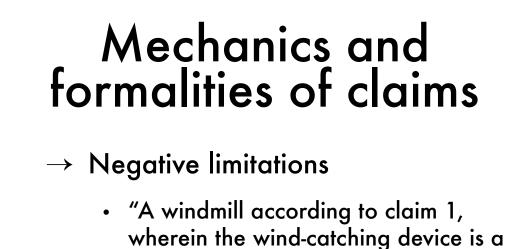
(3) Those elements, steps, and/or relationships which constitute that portion of the claimed combination which the applicant considers as the **new or improved portion**.

### US patent 4,892,244

6. In a staple cartridge insertable within a surgical stapler and containing staples and comprising an elongated body including one or more longitudinal slots for slidably receiving one or more longitudinal pusher bars comprising a firing mechanism of said surgical stapler, and a plurality of drivers engageable by said pusher bars for ejecting the staples from the cartridge, said staple cartridge releasably fastened to a said surgical stapler, the improvement comprising a lockout mechanism connected to said longitudinal slots for preventing said pusher bars from passing more than one time through said longitudinal slots.

"No patent attorney in their right mind would follow this suggestion. There is no absolute mandate that patent claims to an improvement describe what is known or convention in the preamble. Likewise, there is no absolute mandate that the transition phrase used mentions that the body of the claim relates to an improvement."

-Gene Quinn



set of blades made of <u>any rigid material</u> <u>except wood</u>."



# Claim strategy

### $\rightarrow$ Discussion question:

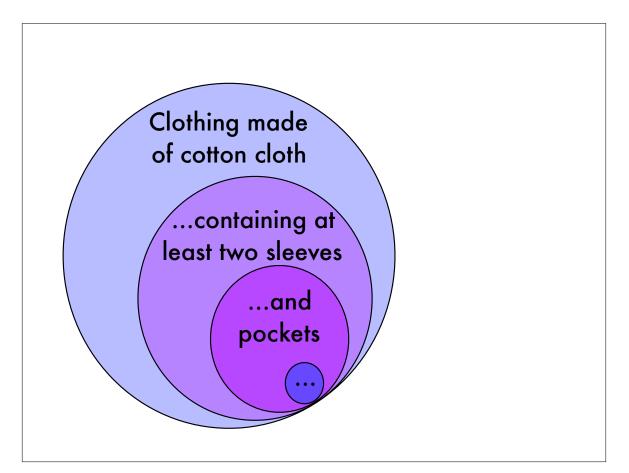
• What are your goals in drafting claims?

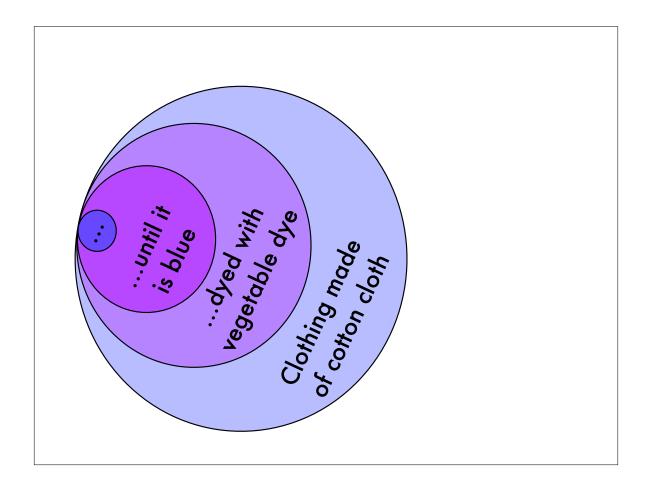
# Claim strategy

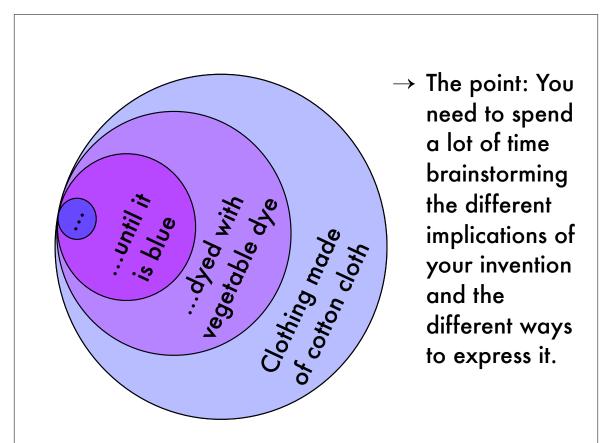
- $\rightarrow$  Claim-drafting goals:
  - <u>Broadest</u> possible claims
  - But also <u>valid</u> claims
  - Claims covering a <u>variety of</u> <u>configurations</u> of the invention

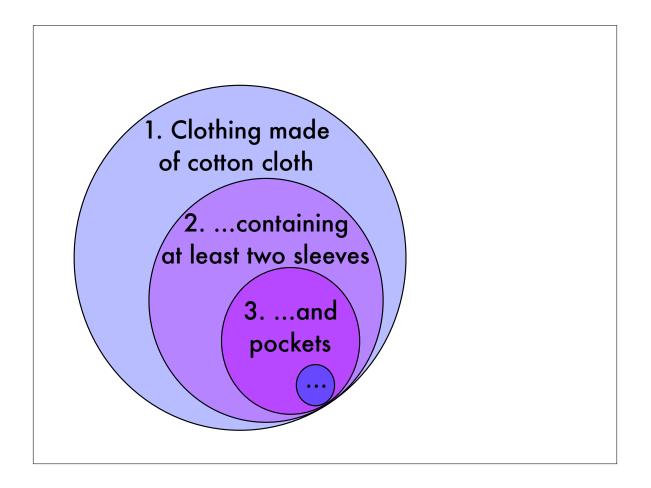
 → Your client's invention:
 a blue cotton shirt with two pockets

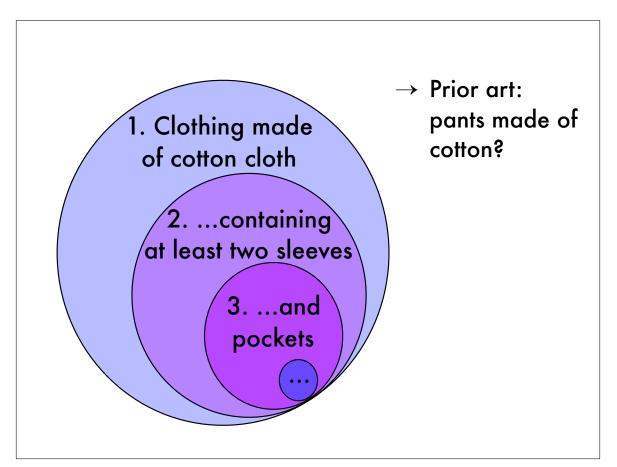


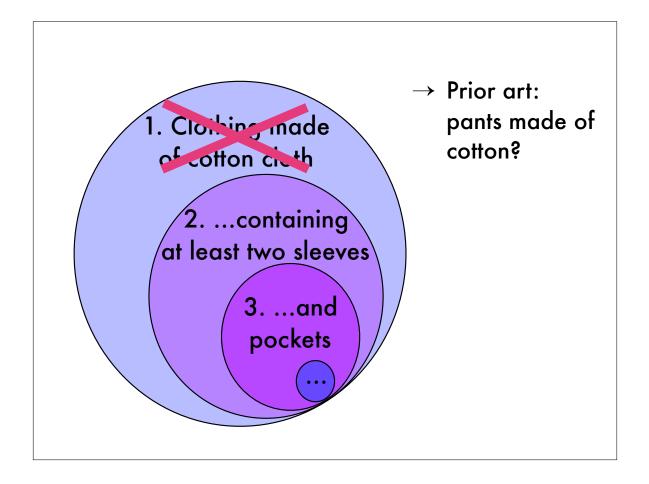


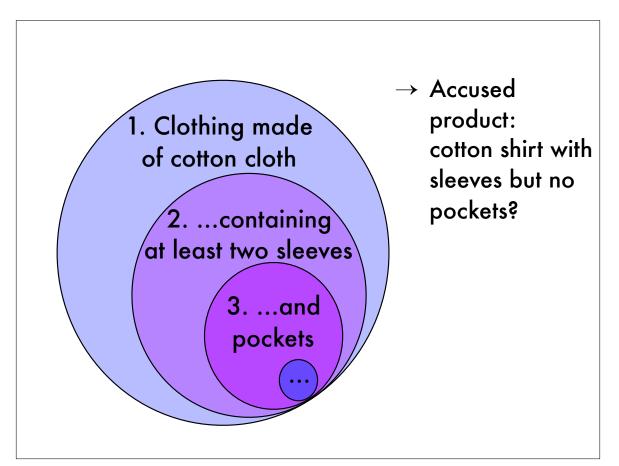


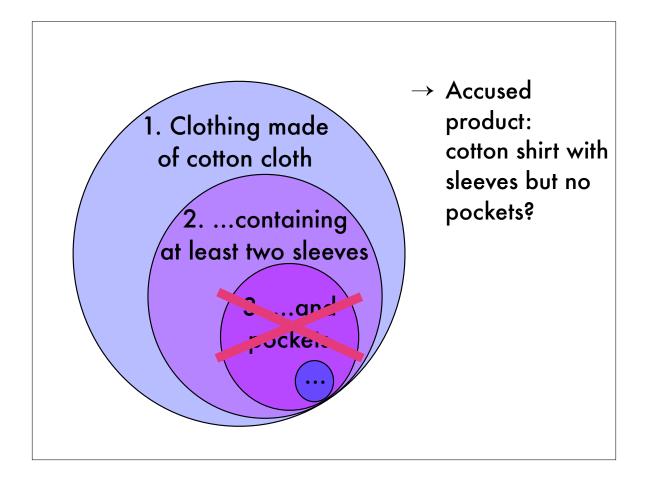


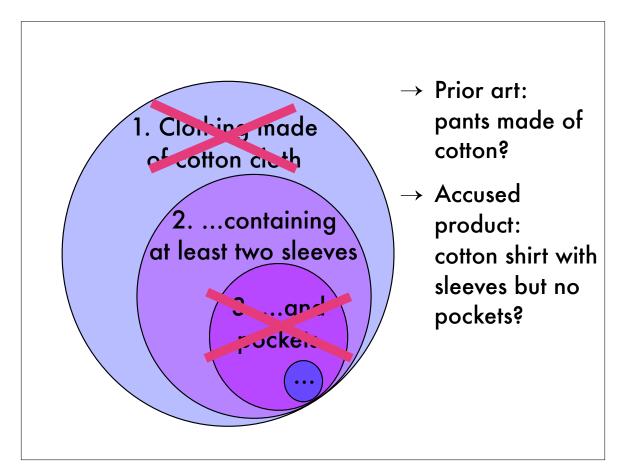




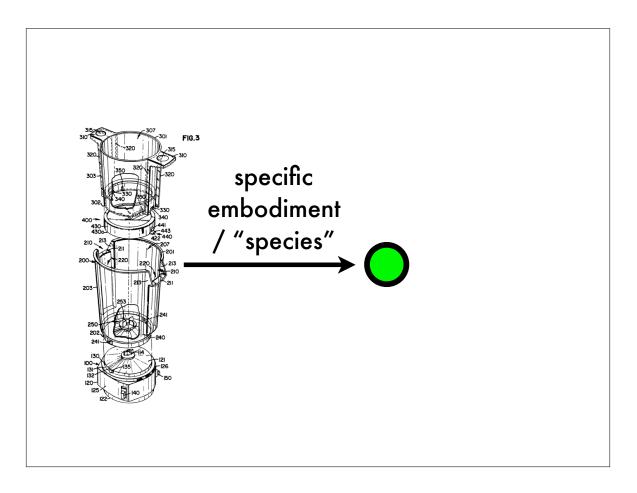


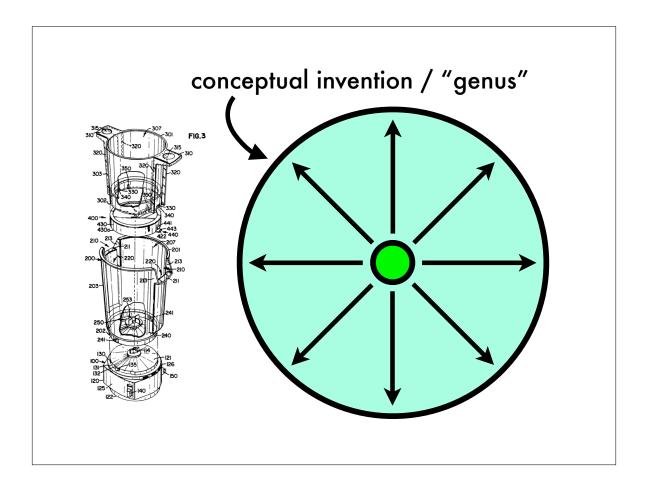














## Claim-drafting exercise

### $\rightarrow$ Key features of the invention?

- Doesn't tear paper
- Produces dry mark
- Doesn't blot
- Can be erased
- Uses graphite/lead mixture as writing material and wood to hold writing material
- Softer woods hold better

## Claim-drafting exercise

- $\rightarrow$  Key features of the invention?
  - Doesn't tear paper
  - Produces dry mark
  - Doesn't blot
  - Can be erased (?)
  - Uses graphite/lead mixture as writing material and wood to hold writing material
  - Softer woods hold better (?)

1. A writing instrument comprising;

a thin top; and

a body,

wherein said thin top is made of lead or graphite, preferably said thin top is made of graphite.

2. A writing instrument as recited in claim 1, wherein said graphite comes from Cumberland, England.

3. A writing instrument as recited in claim 2, wherein said graphite is soft.

4. A writing instrument as recited in claim 1, wherein said thin top is made of mixtures.

5. A writing instrument as recited in claim 1 to 4, wherein said body is made of wood, preferably said body is made of soft wood.

1. A writing instrument comprising:

a casing, wherein disposed within the casing is a solid core;

the solid core including

a marking element comprising a mixture or a pure compound, wherein the marking element produces a mark on the surface that does not blot;

a tip, wherein the tip of the solid core adheres to a surface and does not tear the surface when the marking element produces a mark on the surface; and

an eraser, wherein the eraser rubs out the mark.

2. The writing instrument of claim 1, wherein the casing comprises a wooden material.

3. The writing instrument of claim 2, wherein the wooden material is soft.

4. The writing instrument of claim 1, wherein the tip is pointed.

5. The writing instrument of claim 1, wherein the marking element produces a dark mark.

1. A writing instrument comprising:

a cylindrical wooden base; and

a solid graphite or lead core; and

a rubber gob.

2. A means of writing on parchment using the writing instrument according to claim 1 comprising;

producing a dark mark when dragged across parchment; and

not tearing parchment when dragged across.

3. A means of writing on parchment using the writing instrument according to claim 1 wherein the improvement comprises;

not causing blotting by creating a dry mark; and

producing marks which may be rubbed out using the rubber gob.

4. The writing instrument according to claim 1, further comprising;

either lead or graphite core, with soft graphite producing the clearest mark; and

soft wood creating the more pleasing base.

## Claim-drafting exercise

 $\rightarrow$  Things to think about:

- Are your claims narrow enough to exclude the prior art?
- Are your claims broad enough to cover different configurations of the invention?
- Are your claims flexible enough to cover future technological development?





