

# Patent Claim Format and Independent Claims

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A patent claim has the following three parts:

- preamble
- transitional phrase
- body

A claim is written as a single sentence.

An apparatus, comprising:

 part A; and
 part B coupled with part A.



# Sample Claim:

Claim #

1. An apparatus for cooking rice,

comprising:

transition

at least one container for holding rice and water; and

a heat source configured to transfer heat into the container.



preamble

#### **Preamble:**

- Defines a category for the invention
  - 1. A semiconductor device, comprising:

a substrate; and

electrically conductive pathways on the substrate.

- Often identifies the type of invention
  - Ex.: A method for ...
- Usually consistent with title of patent application



#### **Example:**

**Title** of patent application:

"Rice Cooking Apparatus"

Claim preamble might read:

1. An apparatus for cooking rice, ...



**Example:** But suppose that the inventor knows that the apparatus could be used for cooking any type of grain, then a broader preamble might read:

1. An apparatus for cooking grains, ...



**Example**: Now suppose that the inventor knows that the apparatus could be used for cooking vegetables and melting cheese, then a broader preamble might read:

1. An apparatus for cooking, ...



In drafting claims and their preambles, it is important to know:

- what the invention is,
- how adaptable the invention is to related technologies, and
- how the client plans to make money from the invention.



#### **Transition:**

- Follows the preamble
- May be preceded with a comma and followed with a colon
- Open or closed (next slide)
  - An apparatus, comprising:
     part A; and
     part B coupled with part A.



## With open transitions:

- recited elements specify the *minimum* that is needed for infringement;
- the presence of other elements in an infringing device does not defeat infringement claim.

#### With **closed** transitions:

- recited elements specify the full scope of what is required for infringement;
- the presence of other elements in an otherwise infringing device defeats infringement claim.



Open Transitions: "Comprising" and "Including":

- have been construed to mean "including the following elements but not excluding others" in most jurisdictions;
- typically interpreted as being open-ended (allowing inclusion of other elements/steps);
- however, be wary of differences across countries:
  - a few jurisdictions have found "comprising" to be a closed phrase.



### **Example:**

Invention relates to a pencil with an eraser and a light attached to it ...

## Claim might be:

1. A lighted pencil, comprising:

an elongated pencil shaft having two ends and a central region;

an eraser attached to one of the ends of the elongated pencil shaft; and

a light attached to the center region of the pencil shaft.



## Closed Transitions: "Consisting of"

- has been construed to mean that the claim covers only the elements named with nothing more;
  - the body of the claim specifies "100%" of everything protected;
- confers a close-ended connotation.



Use closed-ended phrases sparingly:

- your client will usually not want to limit the claim to just the recited elements;
- imagine how easily a competitor could make a trivial addition and avoid infringement;
- may alternatively use "consisting essentially of" transition for less-restrictive confinement.
  - In chemistry, use of "consisting essentially of" may still cover embodiments that also include inert or other non-active components.



## **Body:**

- follows the transitional phrase;
- recites the *limitations* of the claim;
- explains the *relationship* between the different limitations.
  - 1. An apparatus, comprising:

part A; and part B coupled with part A.



The following apparatus claim directed to a table would likely be rejected:

1. An apparatus for holding items, comprising:

a top; and

at least one leg.

# Why?

No **relationship** is provided between (or among) the recited elements—the above body is merely a "**list of parts**".



A better claim might read:

1. An apparatus for holding items, comprising:

a top; and

at least one leg coupled with the top to support the top in an elevated position.

The above-highlighted language explains how the leg is configured in relation to the table top.



#### Claim **punctuation**:

- a comma appears at the beginning of the transitional phrase;
- a colon appears at the end of the transitional phrase;
- a semi-colon appears between each subpart;
- the claim ends with a period.

### **Example:** 1. An apparatus, comprising:

part A;

part B; and

part C coupled with parts A and B.

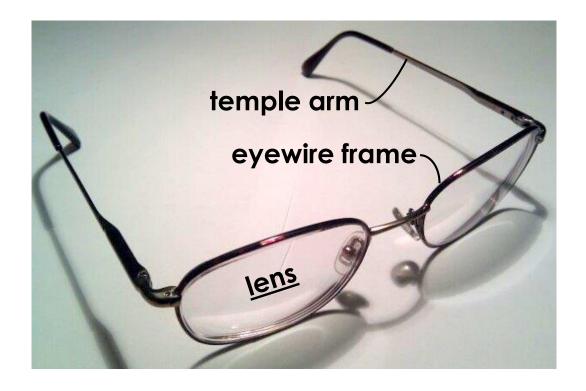


#### Provide proper antecedent basis:

- Introduce a new element by initially referring to it with an indefinite article ("a" or "an")
  - "a cap"
- In subsequent references (within the same claim set) to that same element, use a definite article ("the" or "said")
  - "the cap" or "said cap"



# Example invention for illustrating antecedent basis -- Eyeglasses





Antecedent Example (Apparatus):

1. Eyeglasses, comprising:

a pair of lenses;



an eyewire frame containing the lenses; and

a pair of temple arms extending from the eyewire frame.



Antecedent Example (Method):

1. A method for assembling eyeglasses, comprising:

inserting **a** pair of lenses into **an** eyewire frame; and

pivotably mounting **a** pair of temple arms to **the** eyewire frame.





Distinguishing similar parts in a claim:

- If the claim recites two or more identically named parts, then the claim must distinguish between the two parts.
- For example,
  - use "first" and "second"
    - "a first widget attached to a first end and a second widget attached to a second end"
  - if, for example, you have two identical valves in a system, you might refer to an "input valve" and an "output valve".



# Example:

1. A device, comprising:

a first part;

a **second** part attached to the **first** part; and

a third part fastened to the second part.



#### Reference Numerals:

In some jurisdictions (e.g., EPO), claims may need reference numerals that match corresponding elements in the drawings and specification of the patent application.



#### Reference Numerals:

Assume Figure 1 of the application shows a teapot, which is labeled "123."



- If the claims recite this particular teapot, then the teapot element may need to be followed by the reference number "123"
  - 1. A method for making tea, comprising: filling a teapot (123) with water . . .



#### Reference Numerals:

1. A book, comprising:

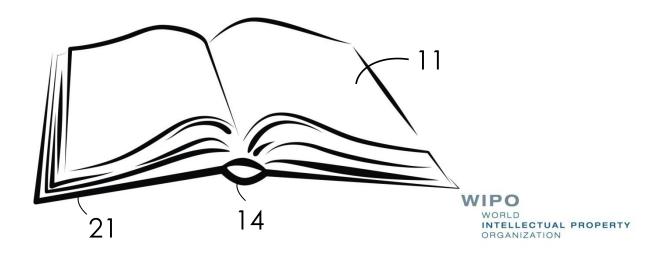
a plurality of printed pages (11);

a binding (14) configured to moveably attach the printed pages (11); and

a cover (21) attached to the binding (14).

# Drawing:

FIG. 1



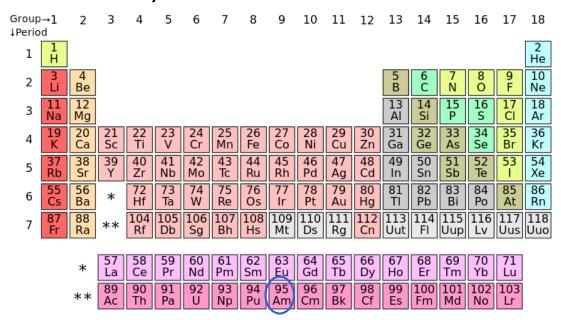
Words/phrases may be used to further define or characterize a structure or to provide a function associated with a given structure:

- "wherein," "such that," and "so as to"
- used to describe function, operation, or result that flows from the recited structure;
- Ex.: "An apparatus, comprising . . . a folder for keeping files, **wherein** the folder is configured to receive and contain the files ..."
- Important to know how these terms/phrases are interpreted in your jurisdiction



Claims usually include *multiple* components or steps

- A claim usually recites at least two elements.
- But see the first claim of US Patent 3,156,523 ("1. Element 95.").





A patent claim without many components/steps or other limitations may be overly broad.

#### Compare:

- "a coat" with
- "a coat having five pockets, six buttons, and a silk lining"



#### Alternatives:

- A claim may refer to various alternatives
  - provided that the alternatives are supported in the specification, and
  - if the claim's scope is not obscured.
- Such alternatives are sometimes known as "Markush groups".
- Can be used in all practice areas; most commonly found in chemical practice.



Ex.: A step in a process requires addition of "copper," "lead," or "gold."

These are the only "metals" that can be used.

Claim language encompassing all three metals could read:

- "adding a metal selected from the group consisting of copper, lead, and gold" (classic "Markush" format) or
- "adding at least one metal selected from copper, lead, and gold"



#### Markush Groupings:

- Before using such a grouping, the patent agent should verify that there is not a more elegant (or precise) way of phrasing the claim.
- A more precise phrasing may provide the maximum scope of protection.

For example, if "copper," "lead," "gold" belong to a class that includes other metals (among the *transition elements*) that would also work, then the patent agent may better serve his client's interests by reciting the class name:

"...adding a transition metal ..."



# Questions?

