

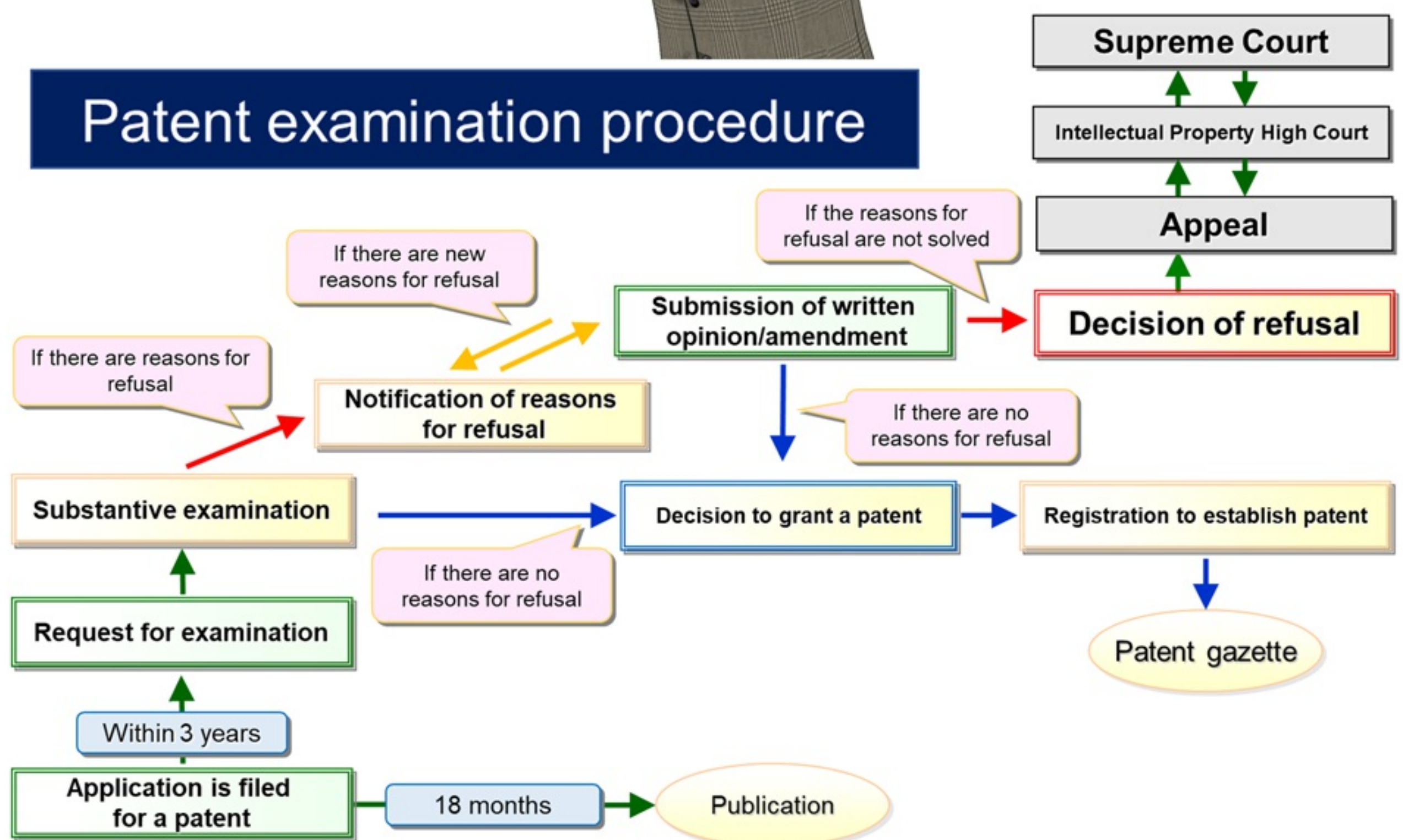
# Chapter 1

## Patent Examination for Beginners

Let's learn the basics of patent examination!  
If you already know the basics of how it works,  
you can skip this chapter.

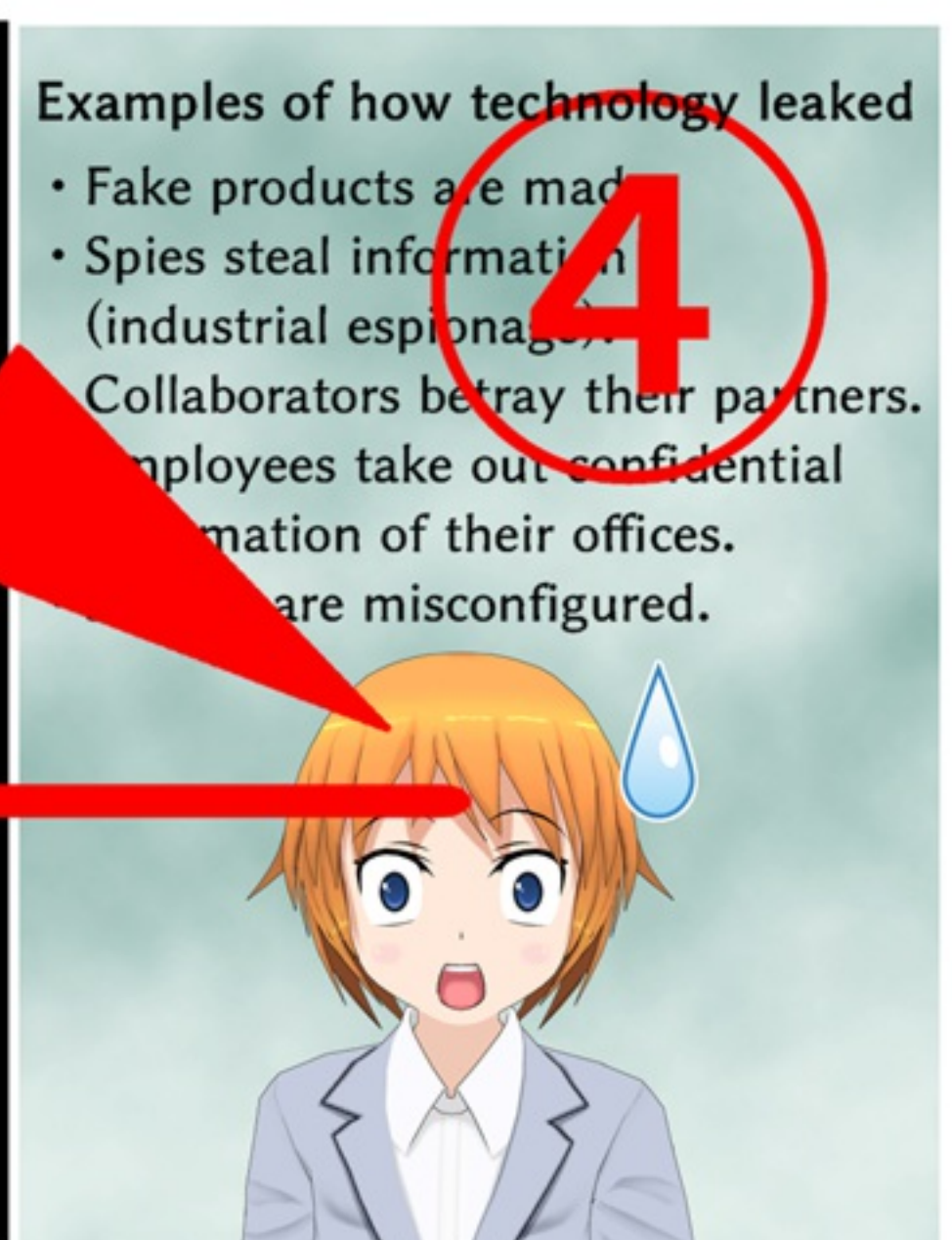
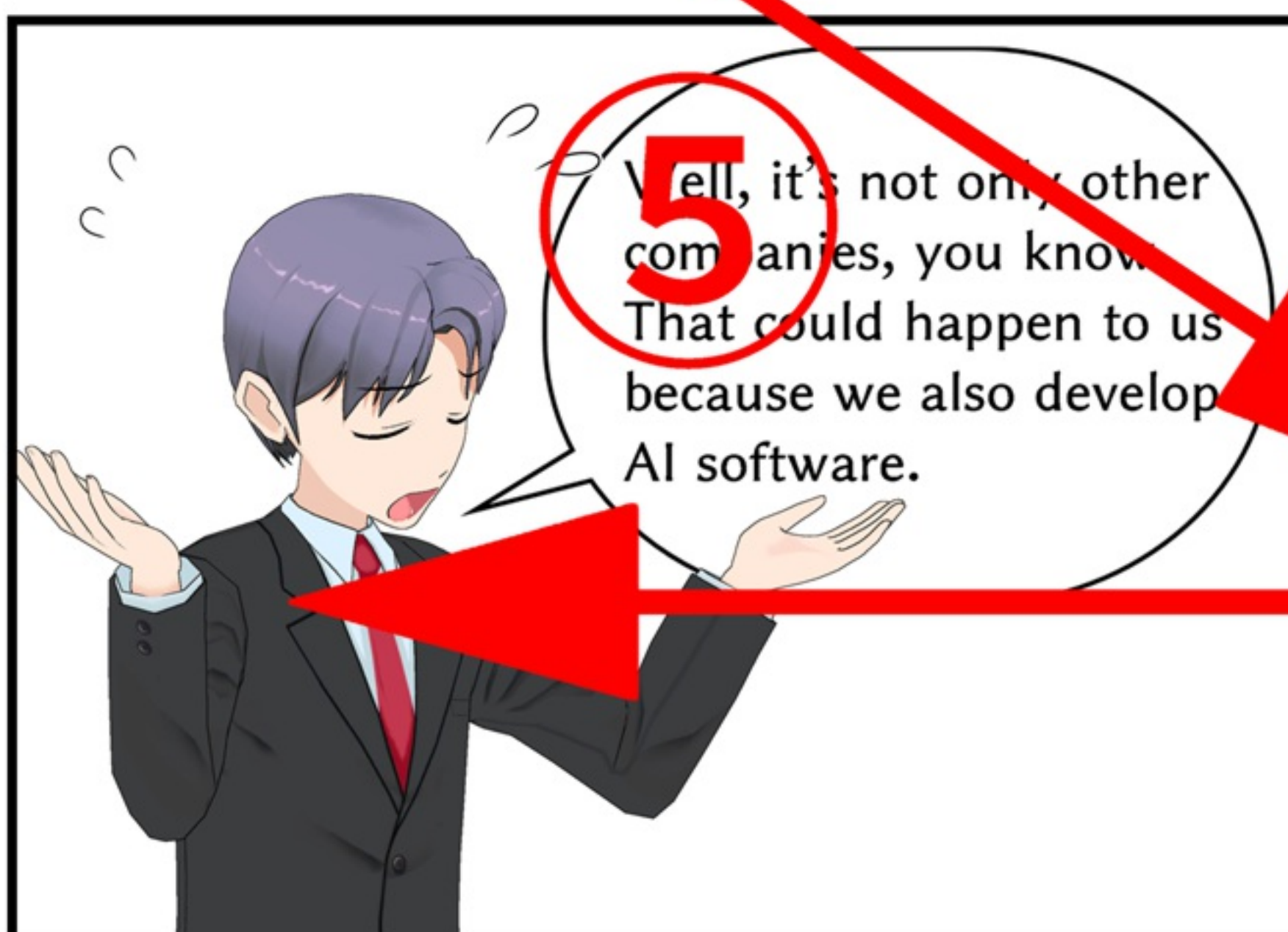
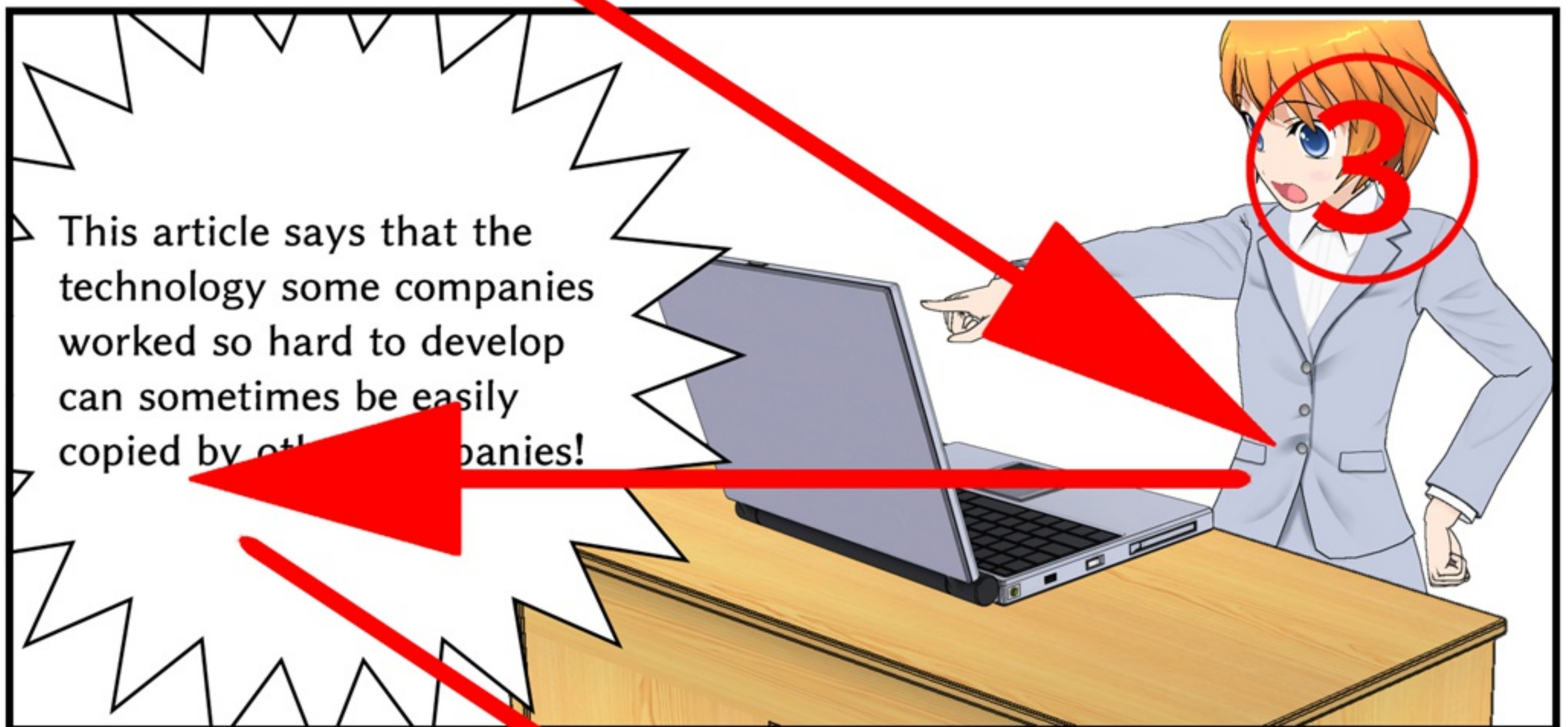


### Patent examination procedure

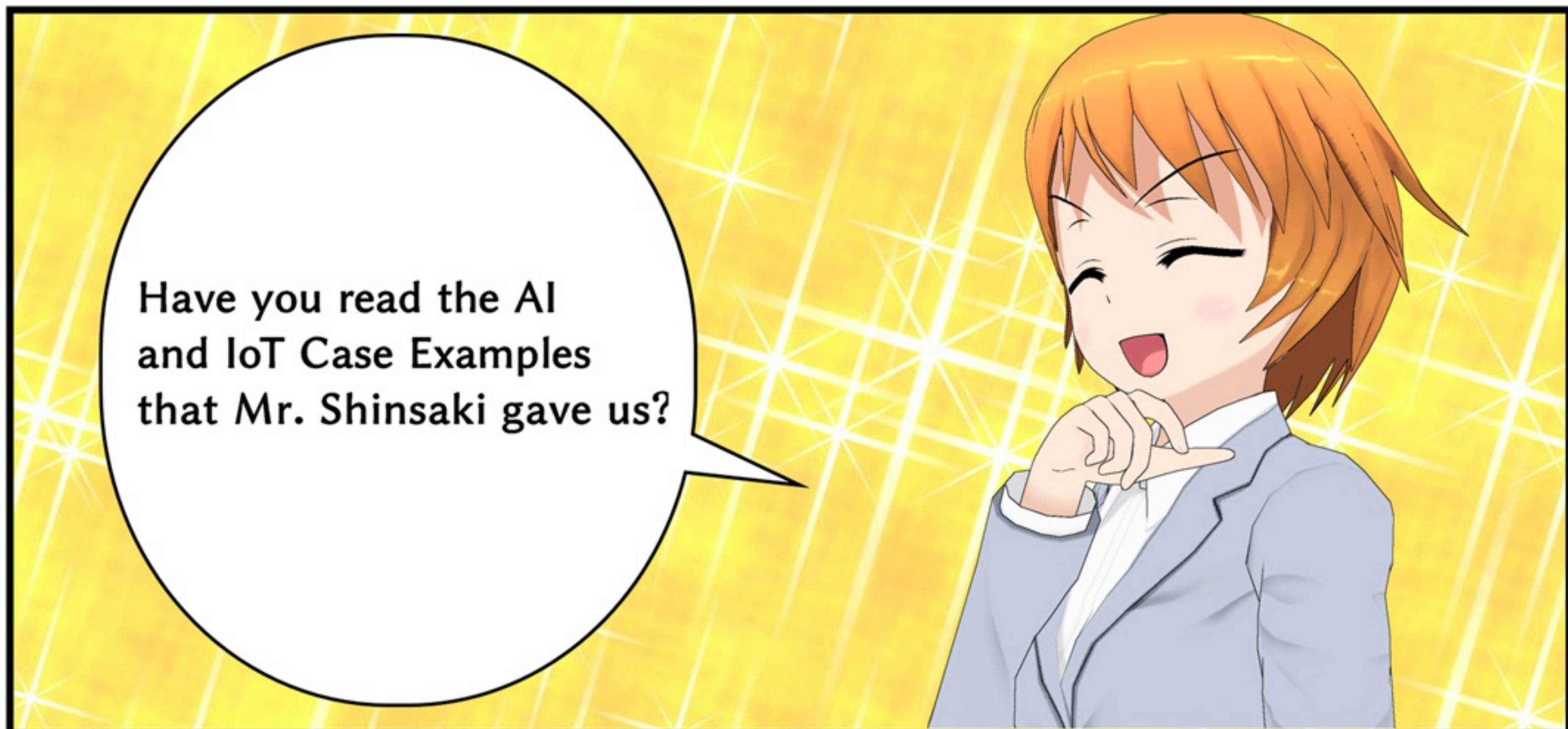




# How to read this Manga



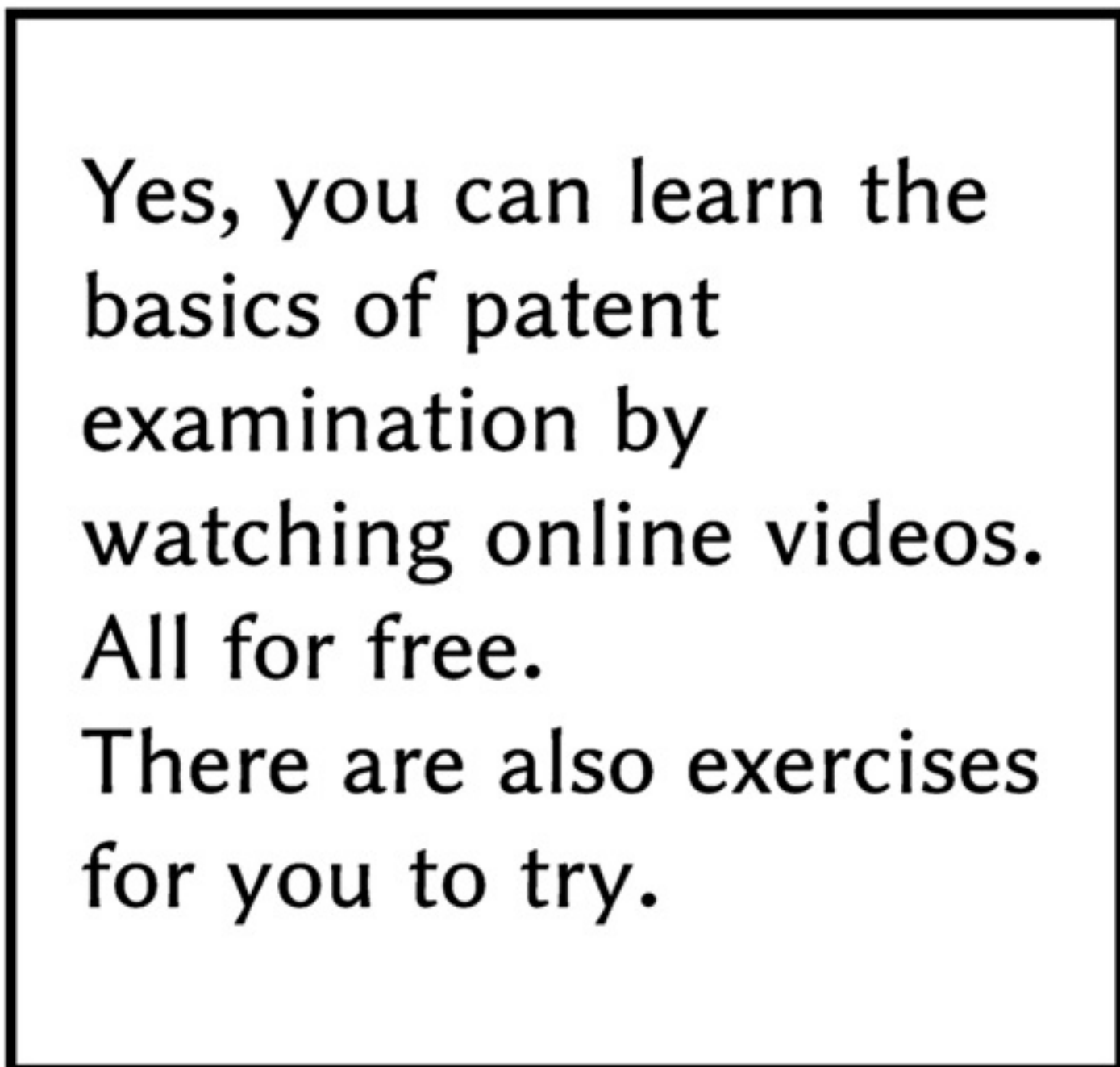
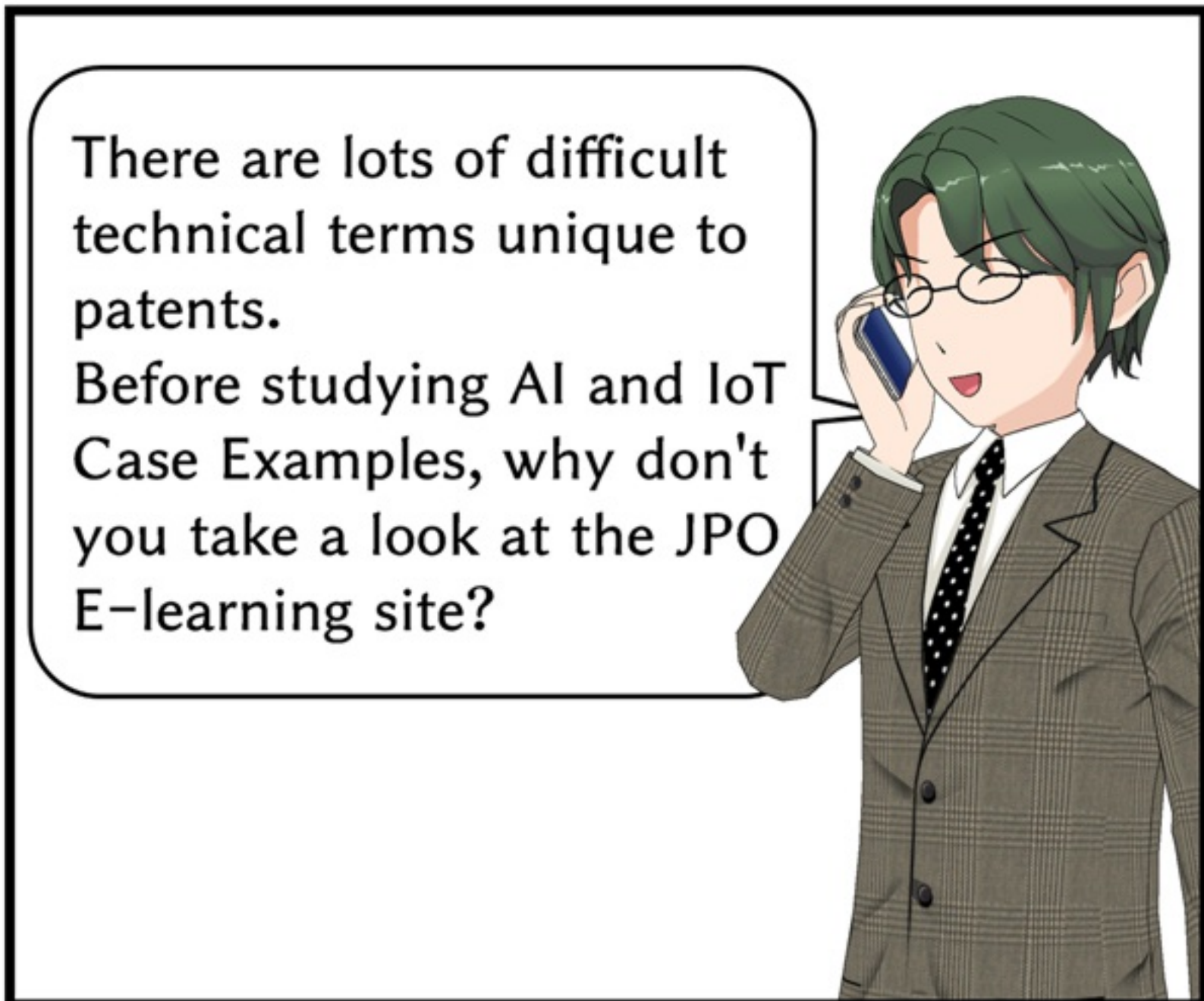




Claims...  
Requirements for Description...  
Inventive Step...  
Patent Eligibility ...  
Hmmm...  
That's a parade of terms I've  
never heard before in my life.

Who else could  
it be but you?  
Make sure you  
understand it  
all!





### JPO E-learning site

Home> Announcements> International topics> Assistance to Developing Countries> E-learning of IPR

#### E-learning of IPR

These e-learning materials have been created as part of the JPO's Co-creation Project. From now on, users can access videos via web-streaming as well as complete download.

#### Study & Materials

- Amendments (2021)
- Utilization of Examination Results of Other Intellectual Property Offices (2021)
- Writing of Reasons for Refusal (2021)
- Requirements for Description (2017)
- Requirements for Claims (2017)
- Novelty (2017)
- Inventive Step (2017)
- Examination Procedure (2016)
- Patent Classification and Search key (2016)
- Prior Art Search (Entry level) (2016)
- Anti-Counterfeiting Measures (2015)
- Industrial Property Rights System in Japan (2014)

### Online video training material

**I. Overview**

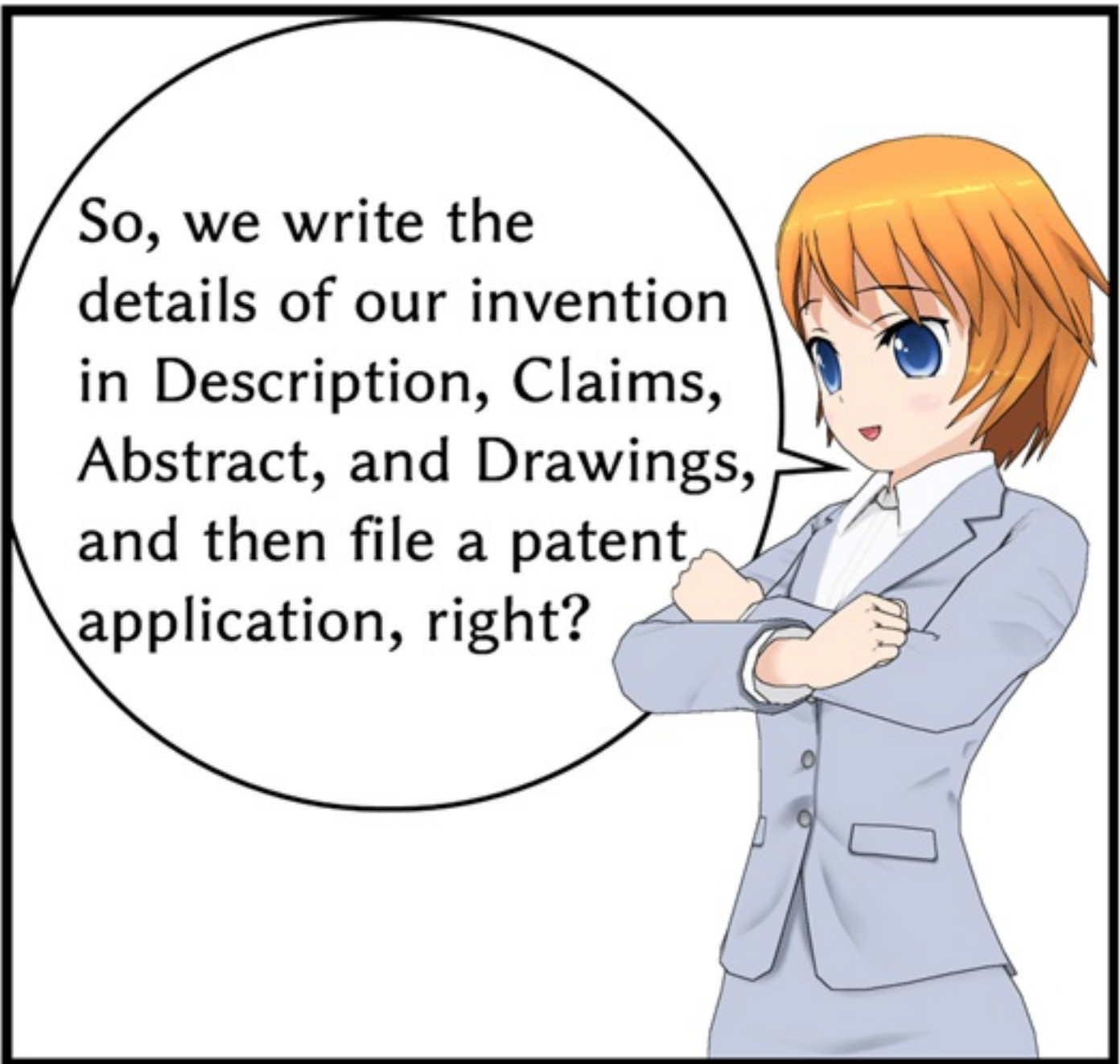
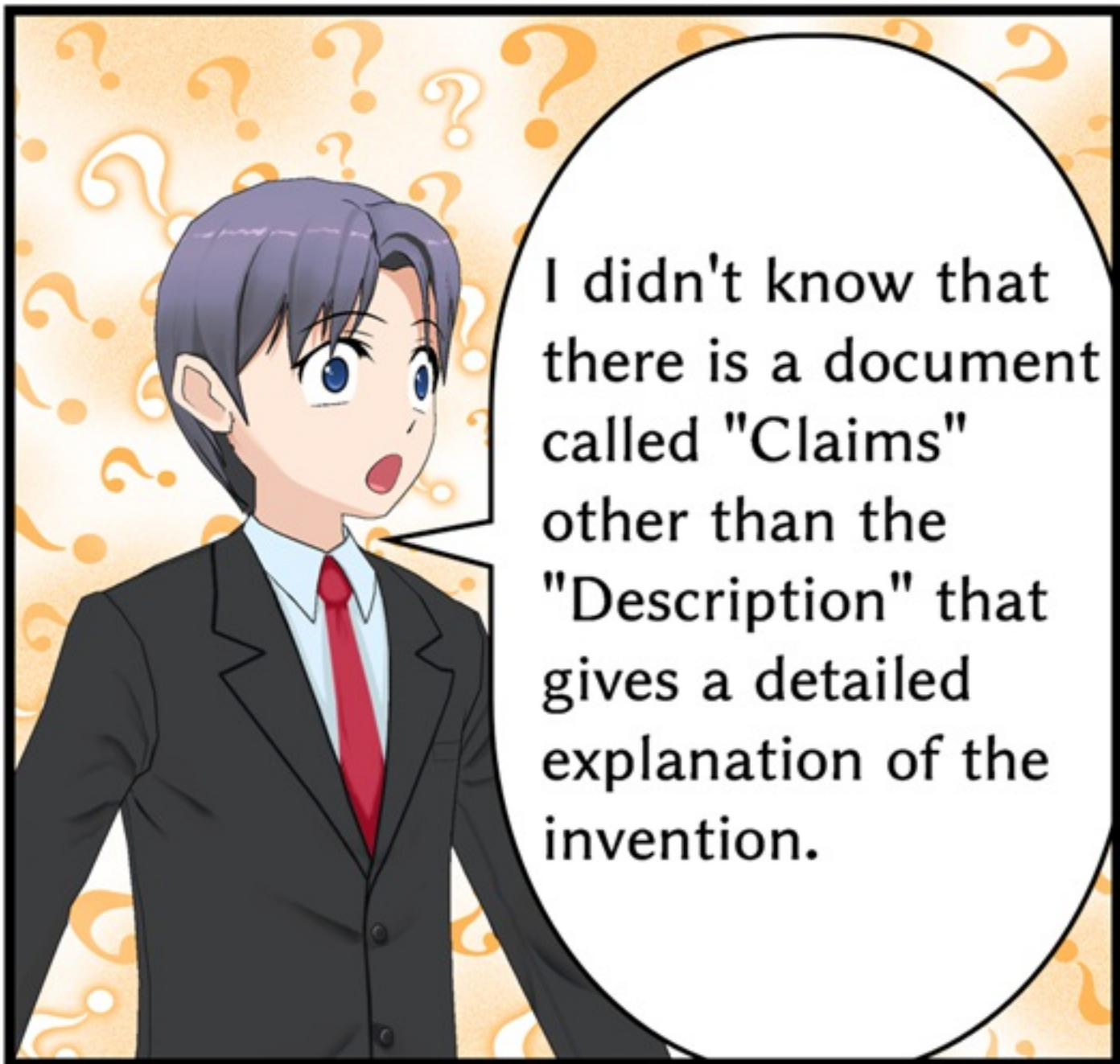
**B. Flow of Patent Examination (JP)**

```
graph TD
    Filing --> Publication
    Filing --> Request[Request for examination]
    Request --> Examination
    Examination --> Notification[Notification of reasons for refusal]
    Notification --> Amendment[Amendment & Opinion]
    Amendment --> DecisionGrant[Decision to grant a patent]
    Amendment --> DecisionRefusal[Decision of refusal]
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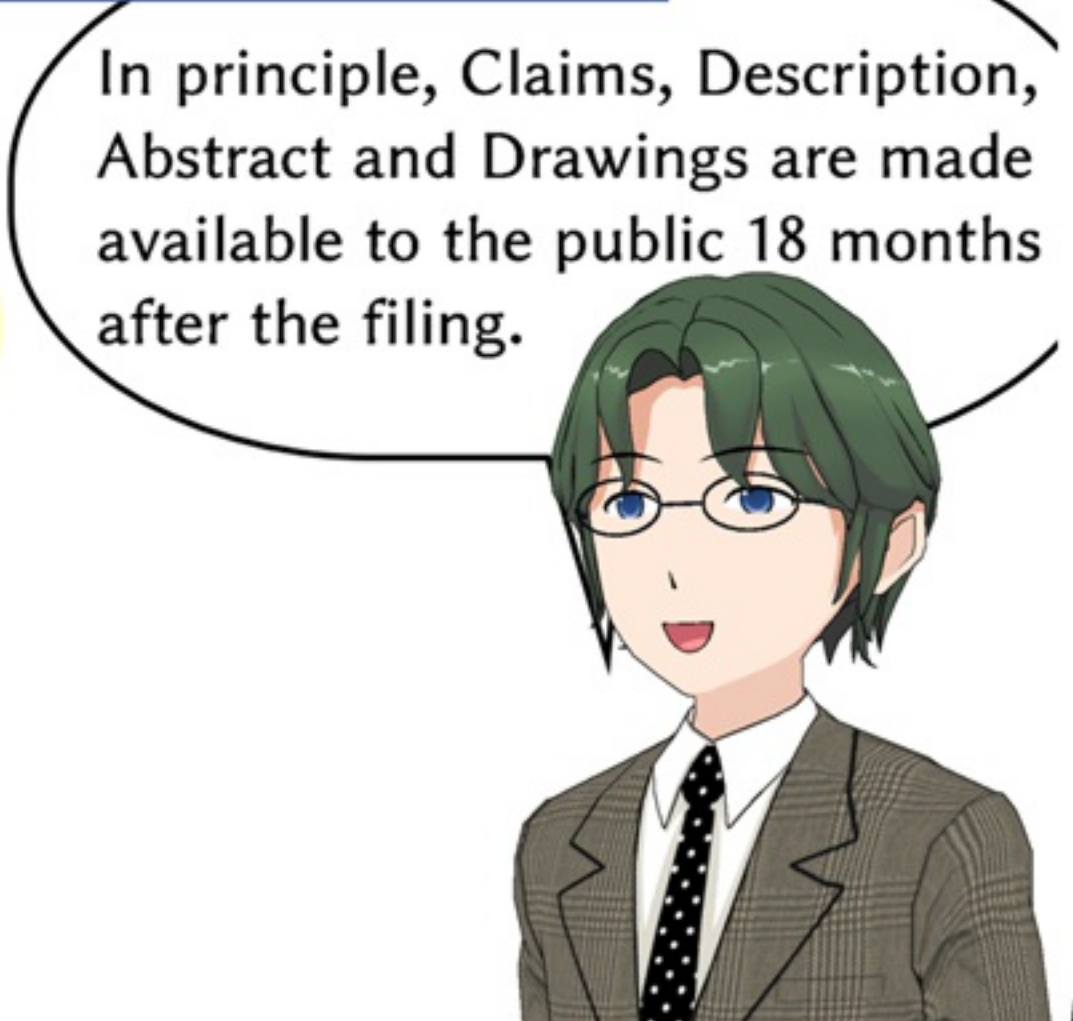
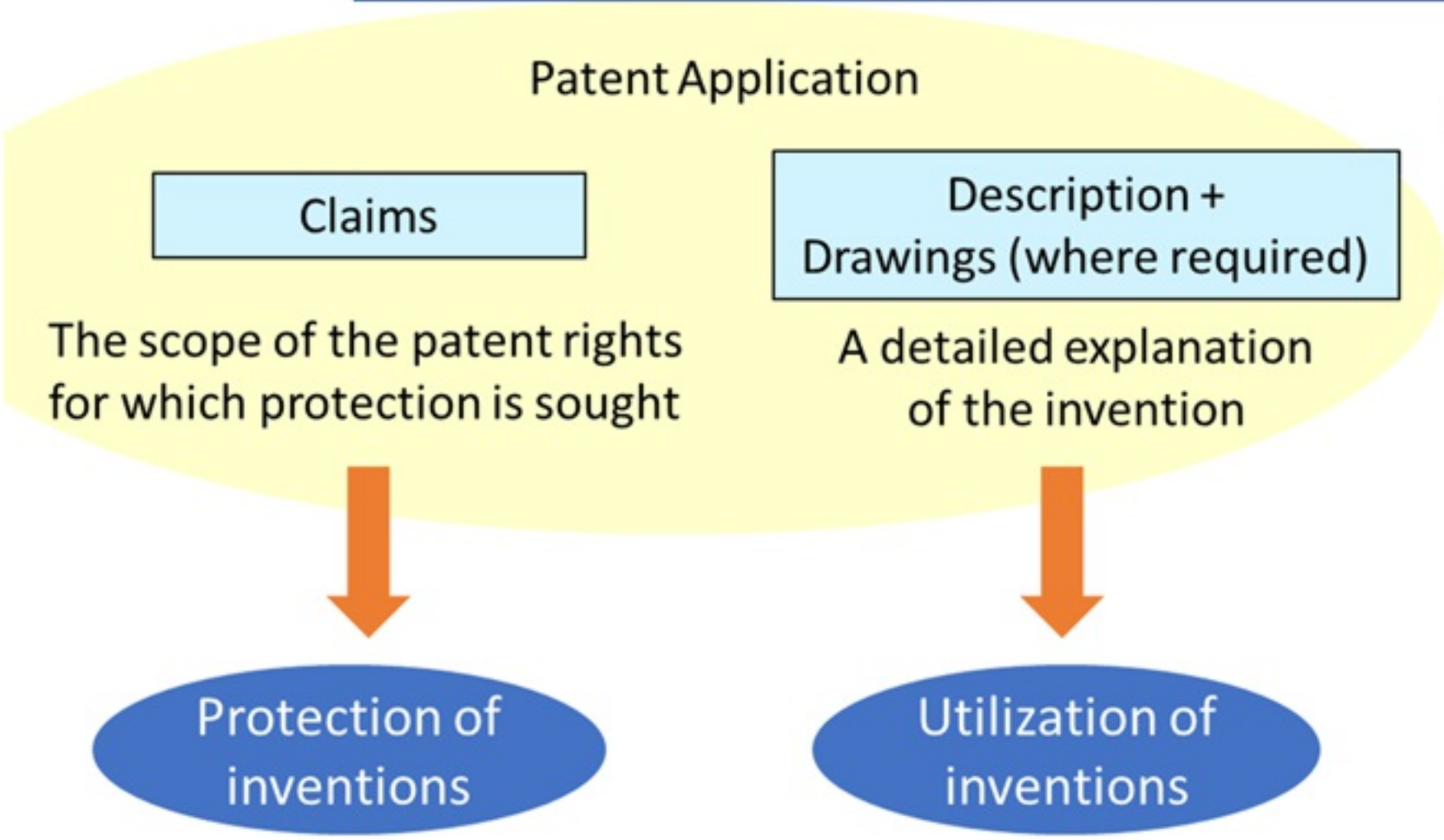
<https://www.jpo.go.jp/e/news/kokusai/developing/training/e-learning/>

There is no way I'm going to miss doing this!

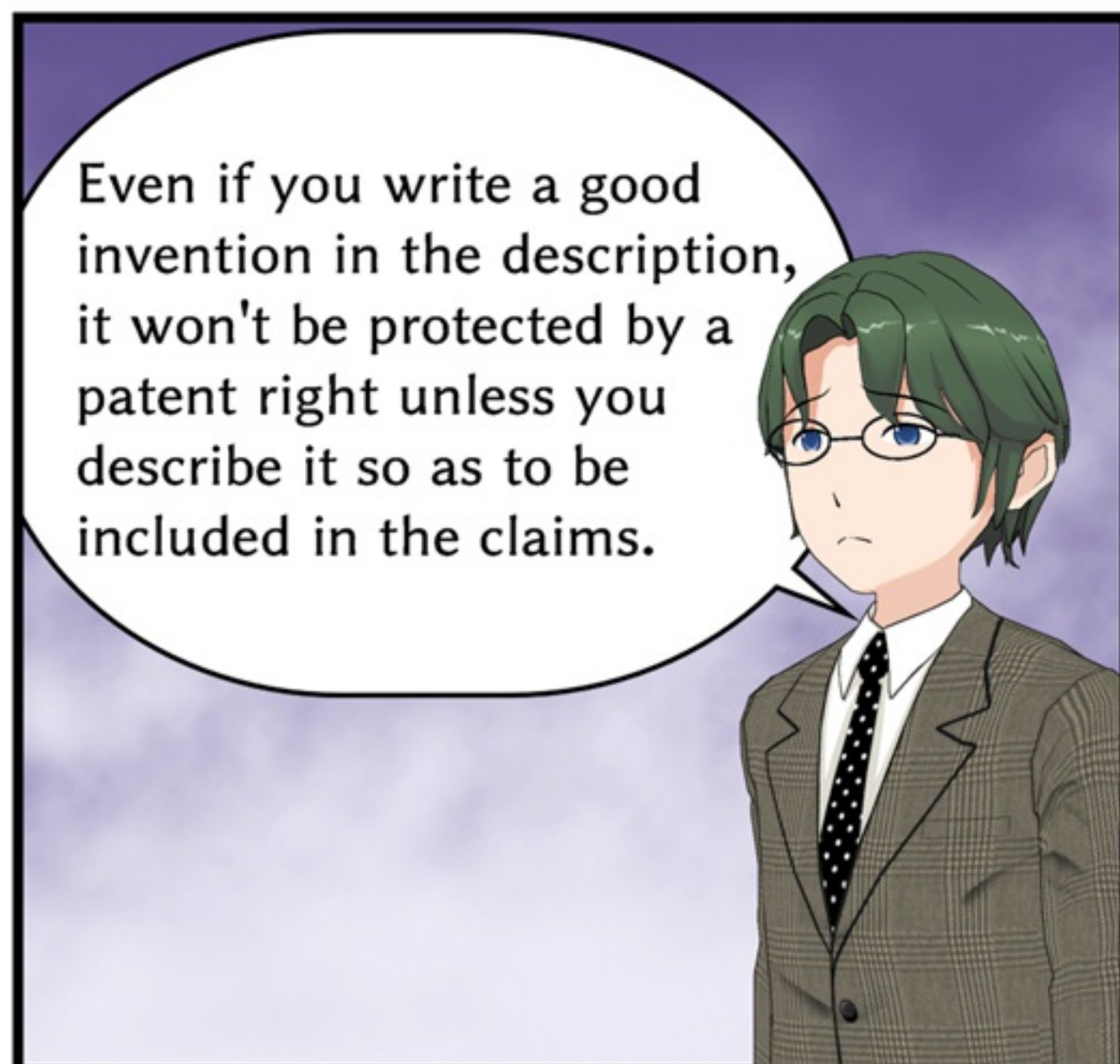
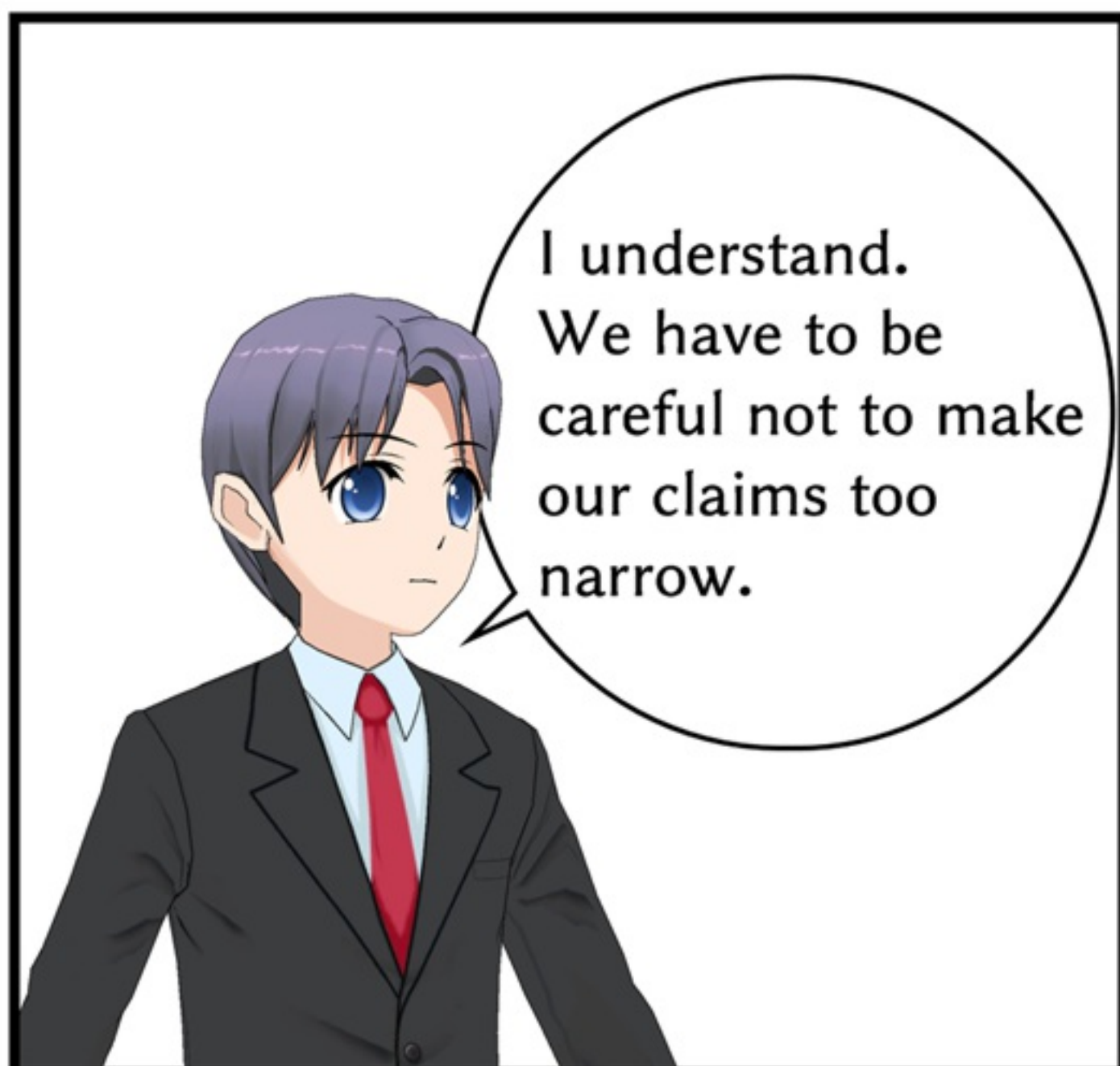




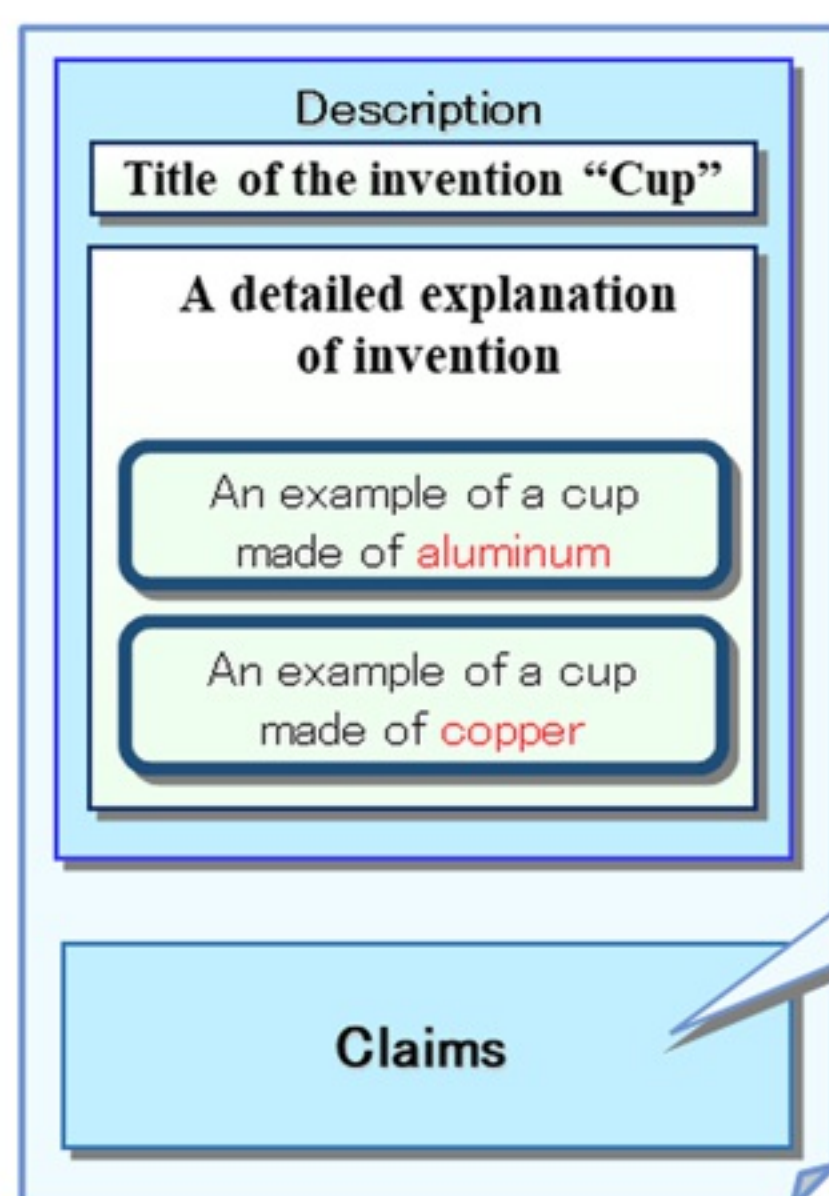
Promoting innovation through the protection and utilization of inventions



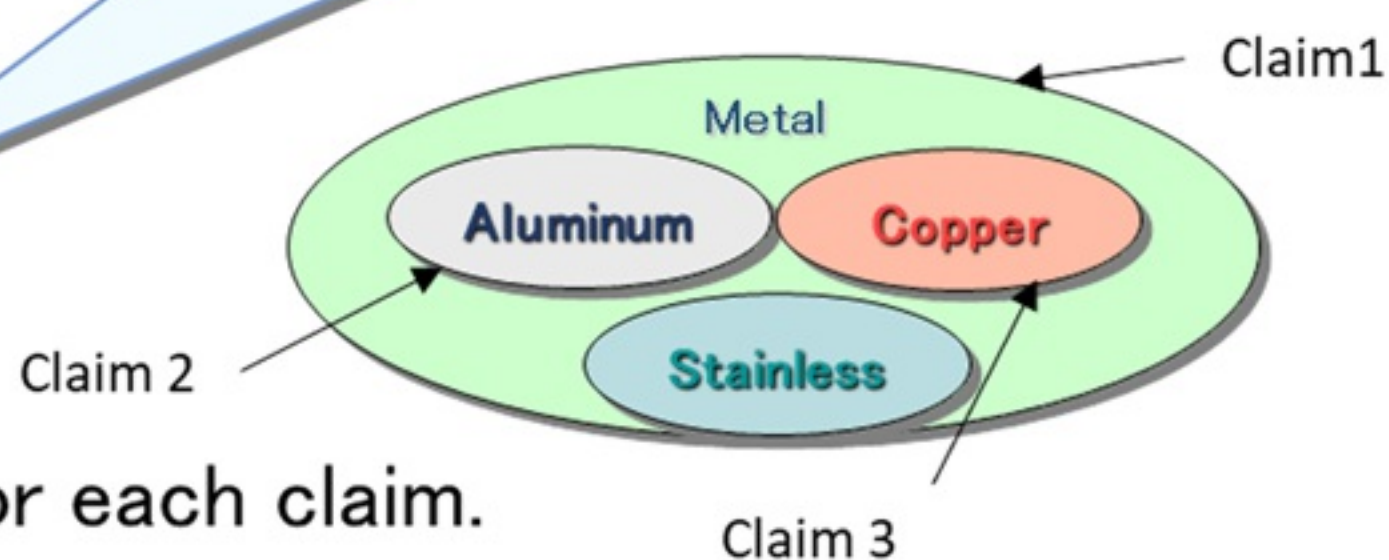




## How to consider the claims



【Claim 1】A cup made of metal.  
【Claim 2】A cup made of aluminum.  
【Claim 3】A cup of Claim1, in which the said metal is copper.



- ✓ Describe the invention for each claim.
- ✓ Claim 1 includes a cup made of any metal, including metals not explicitly mentioned in the Examples, such as stainless steel.
- ✓ Claim 2 includes only a cup made of aluminum.
- ✓ It is also allowed to describe the invention in the form of reference, as Claim 3.

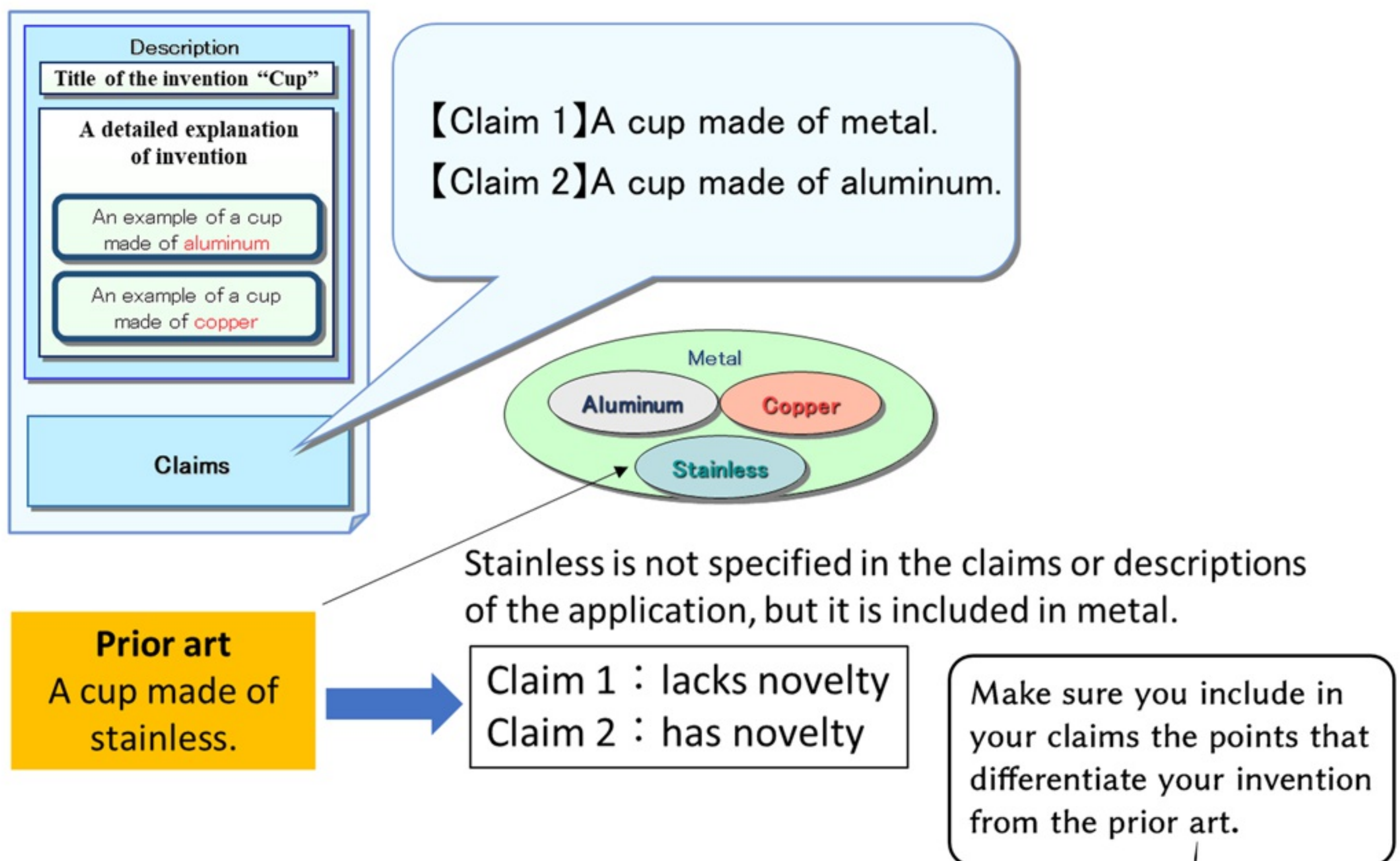
So, even if the same invention is disclosed, the scope of rights changes depending on how we write the claims.







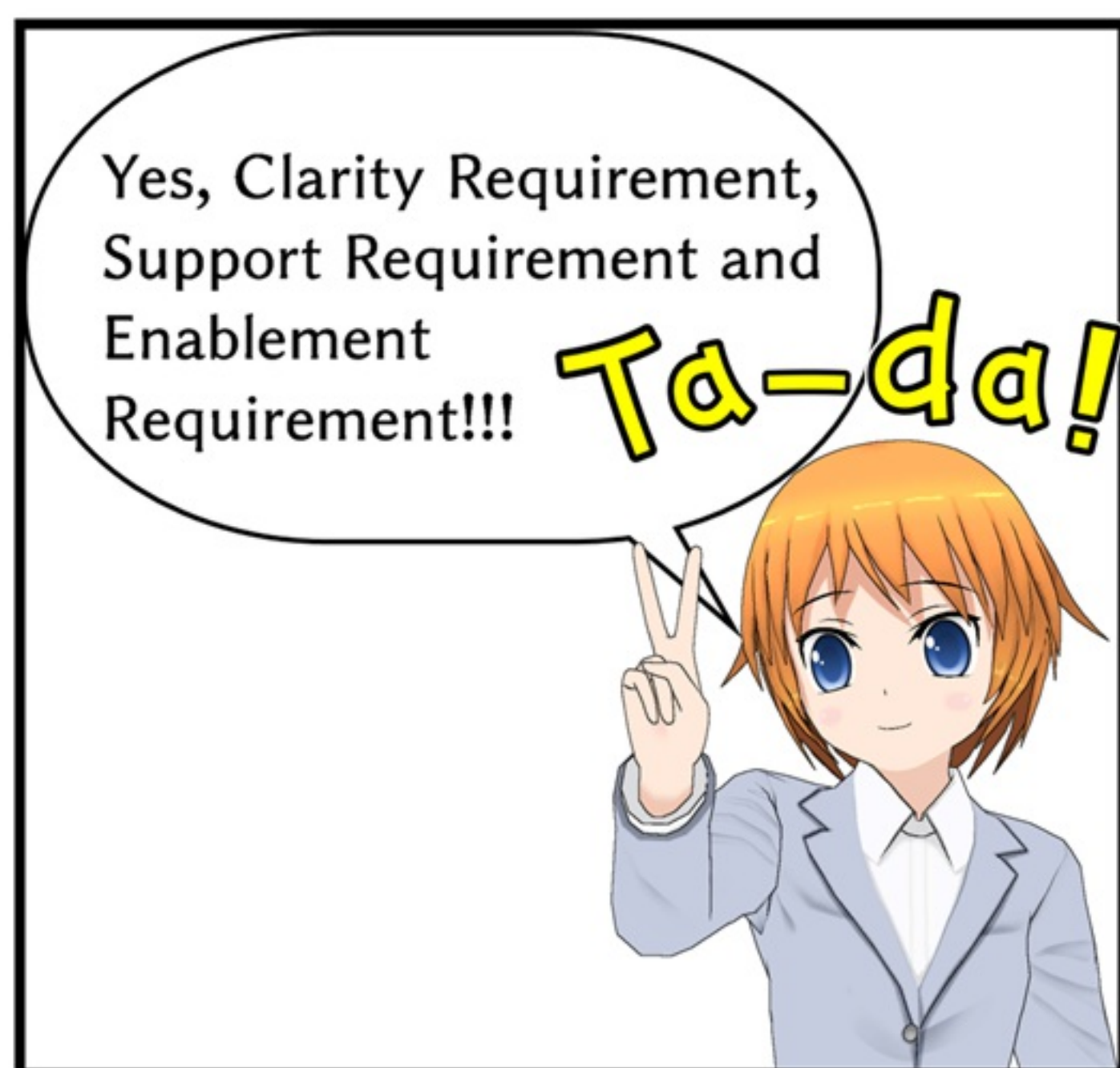
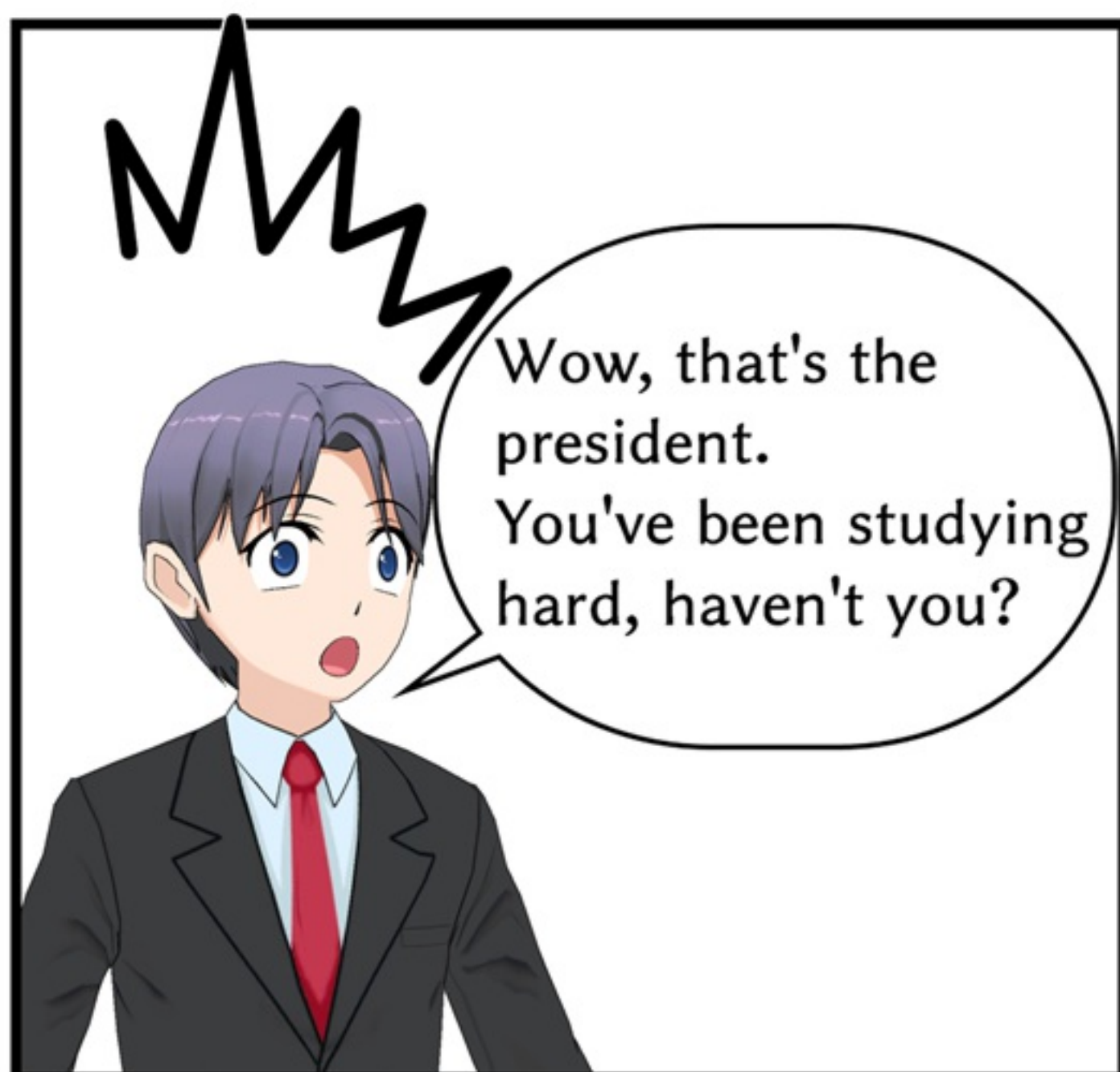
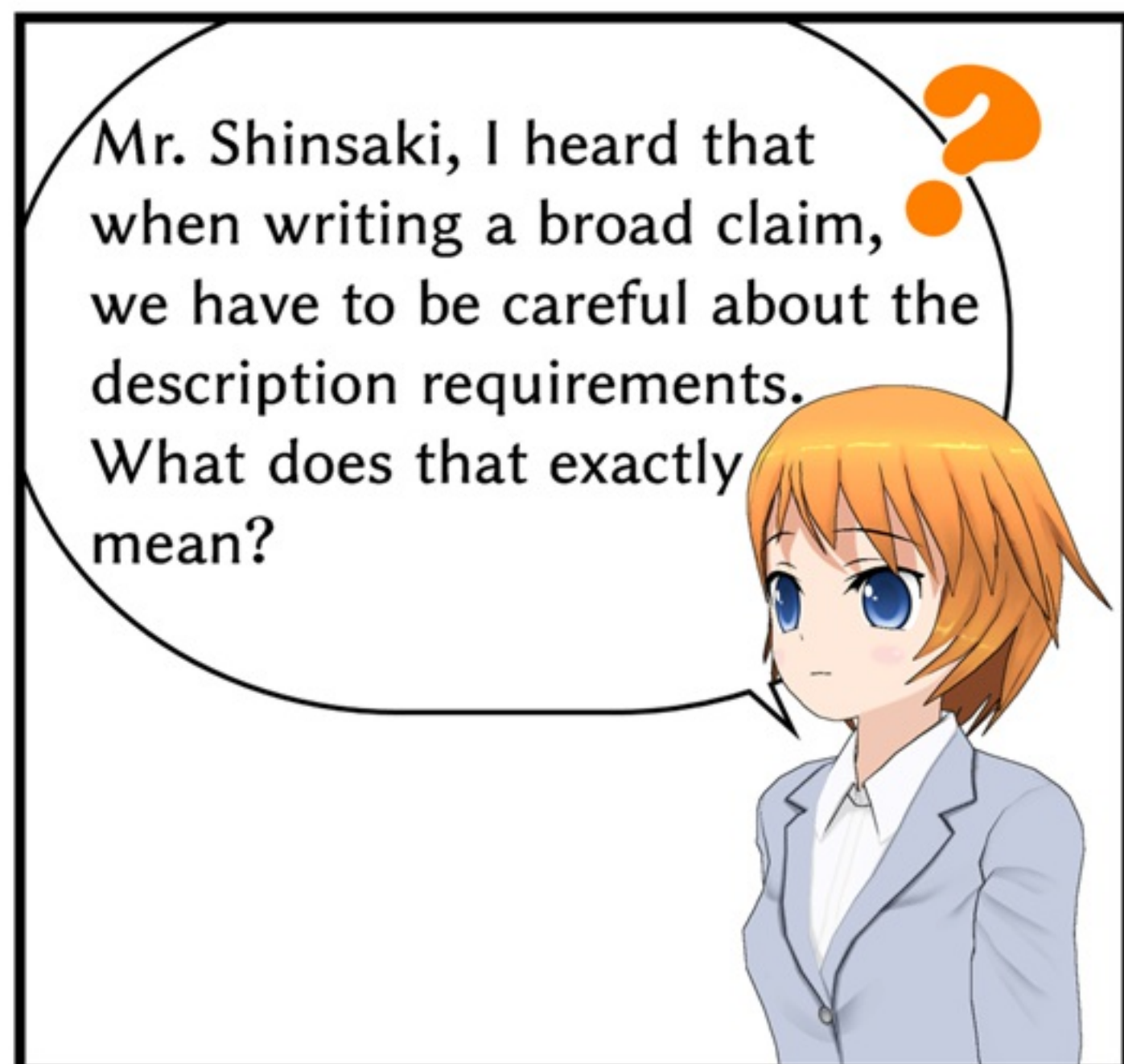
Broad claims are likely to lack novelty or inventive step



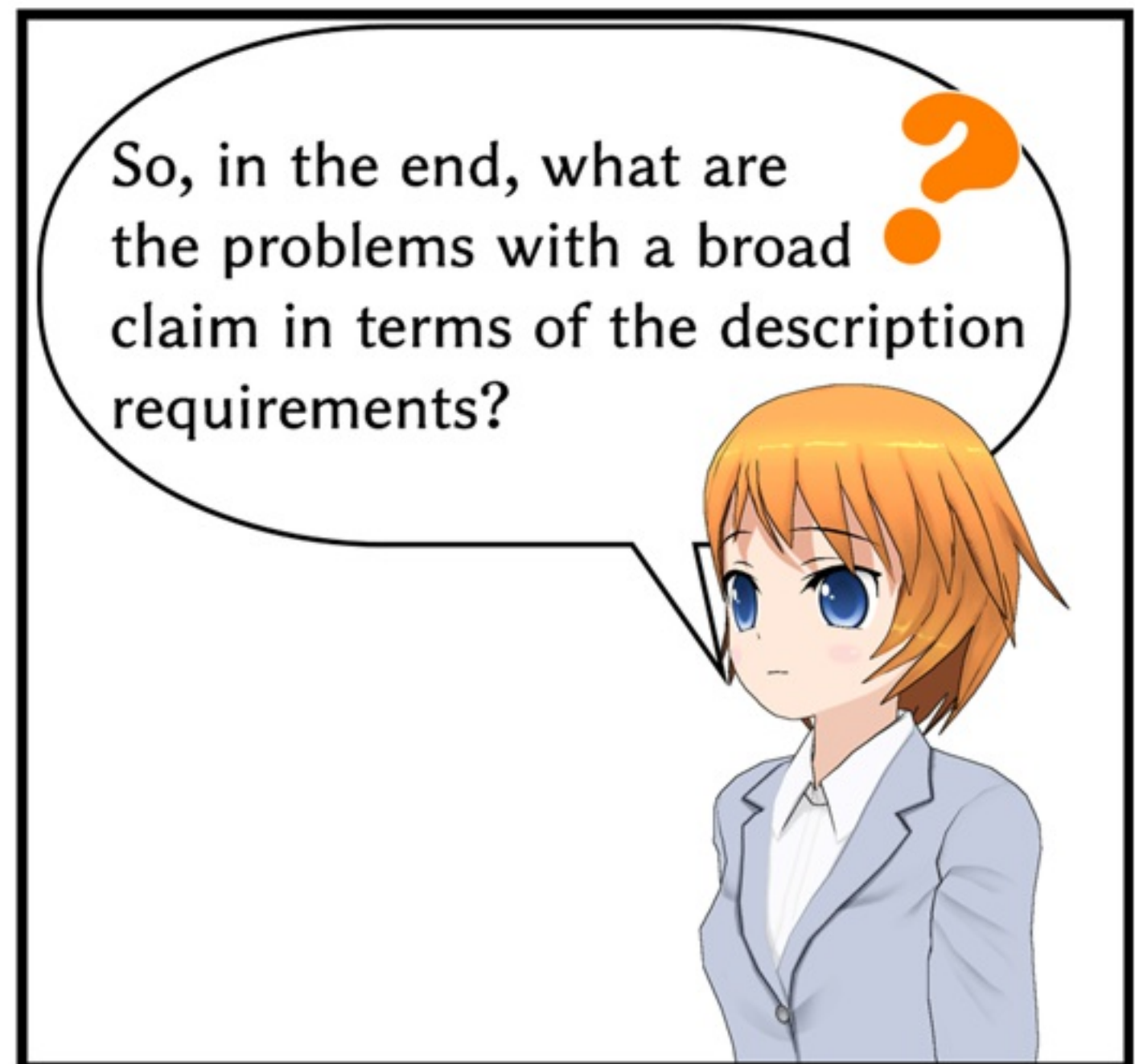
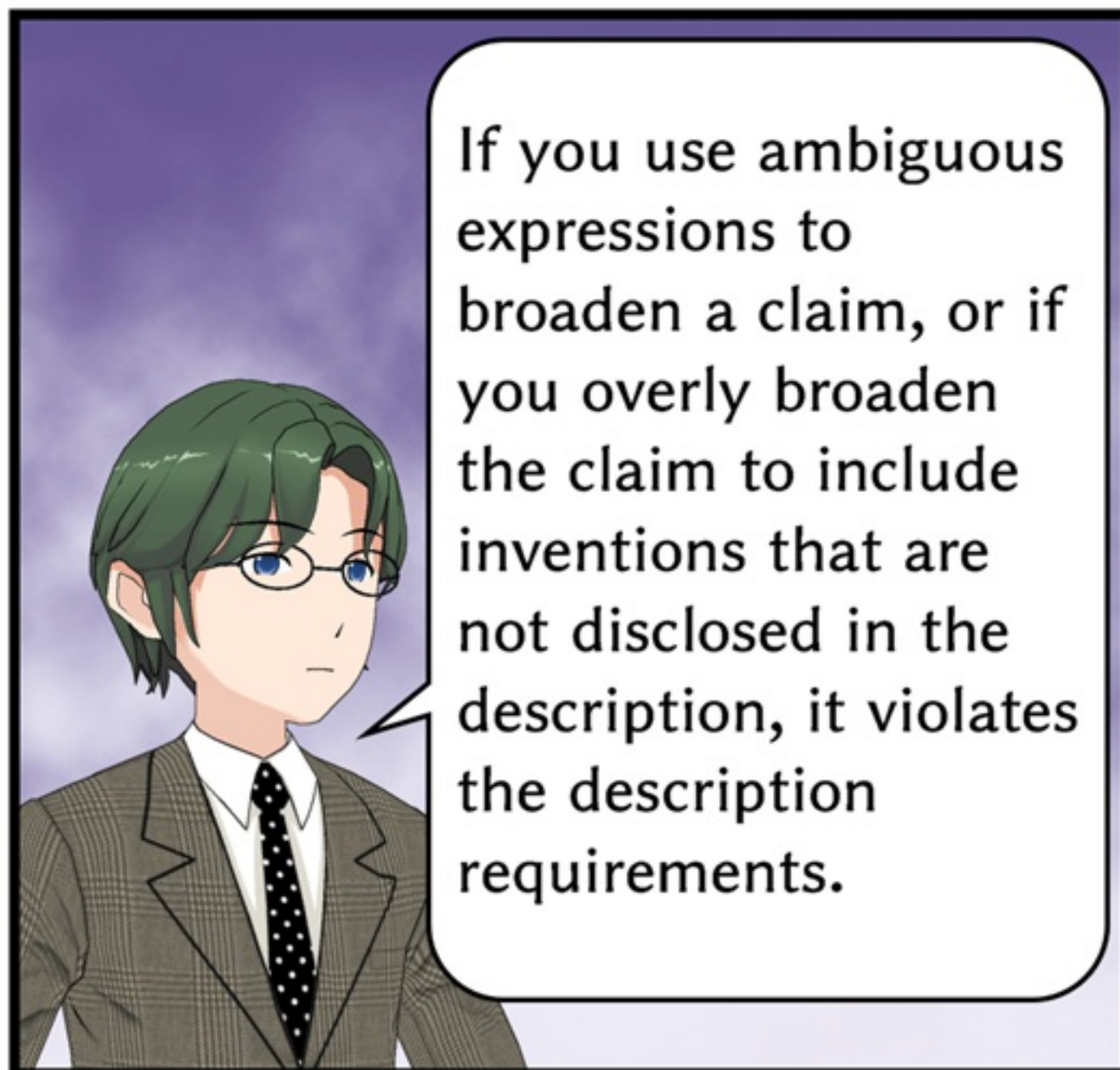
- ✓ A broad claim is difficult to differentiate from the prior art, and is likely to be denied novelty or inventive step.
- ✓ It is often the case for the applicants that a broad claim is initially tried and then amended to correspond to the prior art cited by the examiner.











## What are Description Requirements?

### Requirements for Claims

#### Clarity Requirement

- ✓ Claimed inventions must be clear.
- ✓ It should be avoid to be unclear what constitutes patent infringement due to unclear scope of rights.

It violates Clarity Requirement if **the scope of the rights become unclear** in an attempt to broaden the claims.

#### Support Requirement

- ✓ Claimed invention must be described in the description (detailed explanation of the invention).
- ✓ It is against the purpose of the patent system to grant protection to inventions which are not described in the description as available technical information.

As a result of broadening the claims, it violates Support Requirement if **it includes a configuration that cannot solve the problem of the application**.

### Requirements for Description

#### Enablement Requirement

- ✓ The detailed explanation of the invention in the description must enable **a person skilled in the art** to work the invention.
- ✓ Otherwise, the invention will not be available as technical information.

As a result of broadening the claims, **if the claimed invention includes something that cannot be carried out by a person skilled in the art even by referring to the detailed explanation of the invention**, it will be a violation of Enablement Requirement.



No. I'm saying that you should write a claim that is consistent with what you disclosed in the description.

If you want to write a broad claim, you should enrich the embodiments or examples in the detailed explanation of the invention in the description.



# Patent Application Documents

Compared with a research report

Title of Research
Field of Research
Conventional technology level, background of the research
Research themes and goals
Research tools and methods
Experimental results, research results
Examples of experiments, experimental data, etc.
Equipment diagram, flow diagram, etc.

Description	Title of Invention	
	Detailed Explanation of the Invention	Field of Technology
		Background Technology
		Prior Art Document
		Problem to be solved by the invention
		Means to solve the problem
		Effect of the Invention
		Brief explanation of the drawings
		Embodiments or examples for carrying out the (claimed) invention
		Industrial applicability
		Explanations of letters or numerals, etc.
	Claims	
	Abstract	
	Drawings (where required)	

- ◎Express the content of the invention in a simplified manner
- ◎Related field of the invention (field of industrial application)
- ◎Conventional technology as a basis for improvement
- ◎Patent Document, Non-Patent Document
- ◎Problems with conventional technology. Emerging needs.
- ◎What means to be used to solve the problem
- ◎Advantages over conventional technology
- ◎Explanation of each figure. Explanation of letters or numerals.
- ◎Examples of actual experiments and prototypes. Logical explanation of them. An explanation of how the invention can be used in industry if it can be implemented by deduction from the theory.
- ◎Industrial applications
- ◎Technical Scope of the Patent
- ◎Key points of the overall invention (to be published in the publication of unexamined applications)
- ◎Helps to understand the wording of the description



For example, if you write a claim with a broad conceptual term such as "metal", describe embodiments or examples of various metals to the extent that a person skilled in the art would recognize that the problem of the invention would be solved with metals in general.



The inventive step is also examined based on the standard of a person skilled in the art!



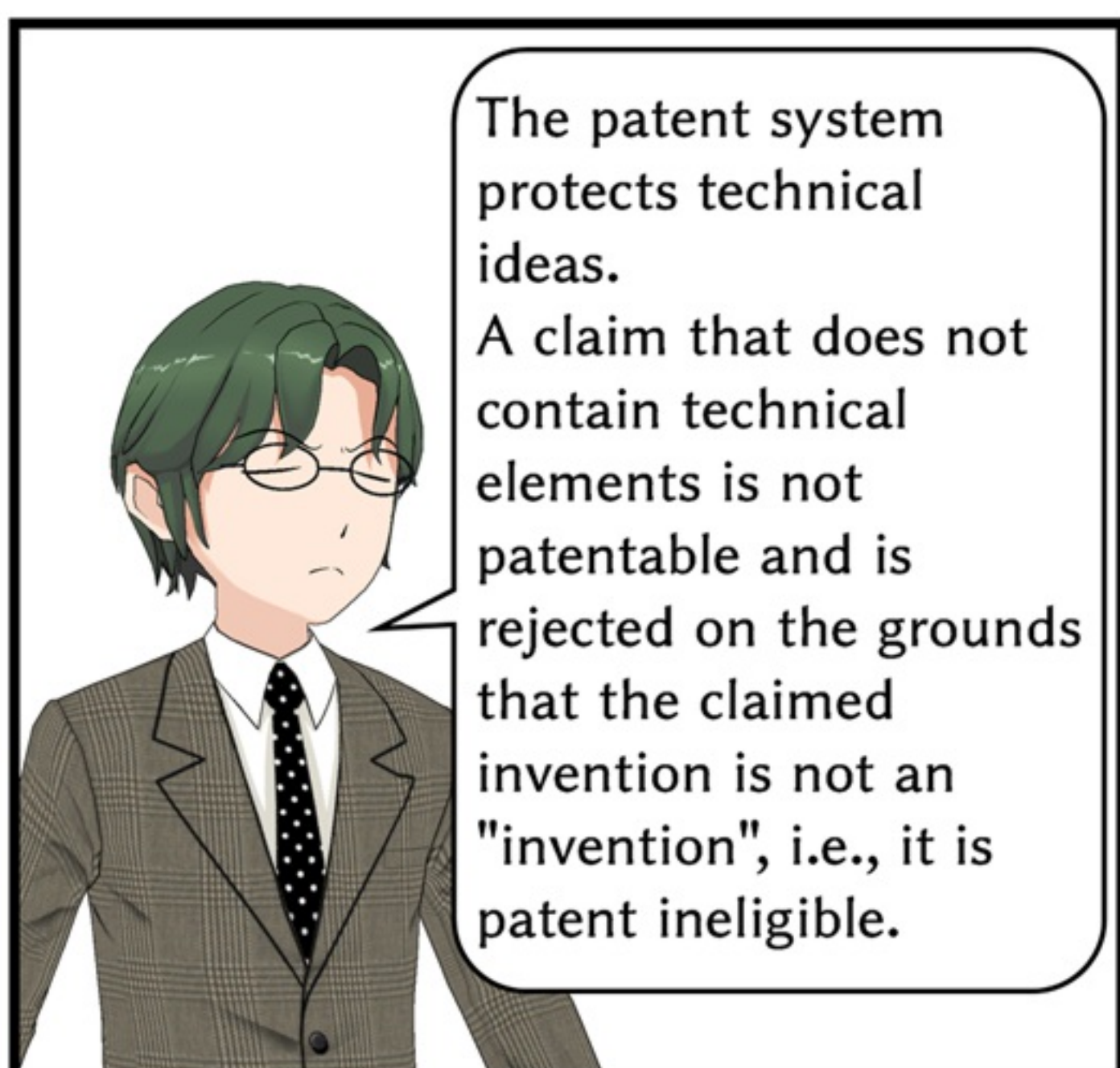
It's a hypothetical person who has the common general knowledge in the technical field of the invention.  
In fields involving cross sectional technologies or complex technologies, the hypothetical person would be a team composed of experts.

By the way, who do you mean by "a person skilled in the art"?  
Do you mean someone who is smart or great?  
You know, someone who is a representative of the company, like me?



Be careful about Patent Eligibility.

Is there anything else we should be careful about the AI-related inventions we are developing?

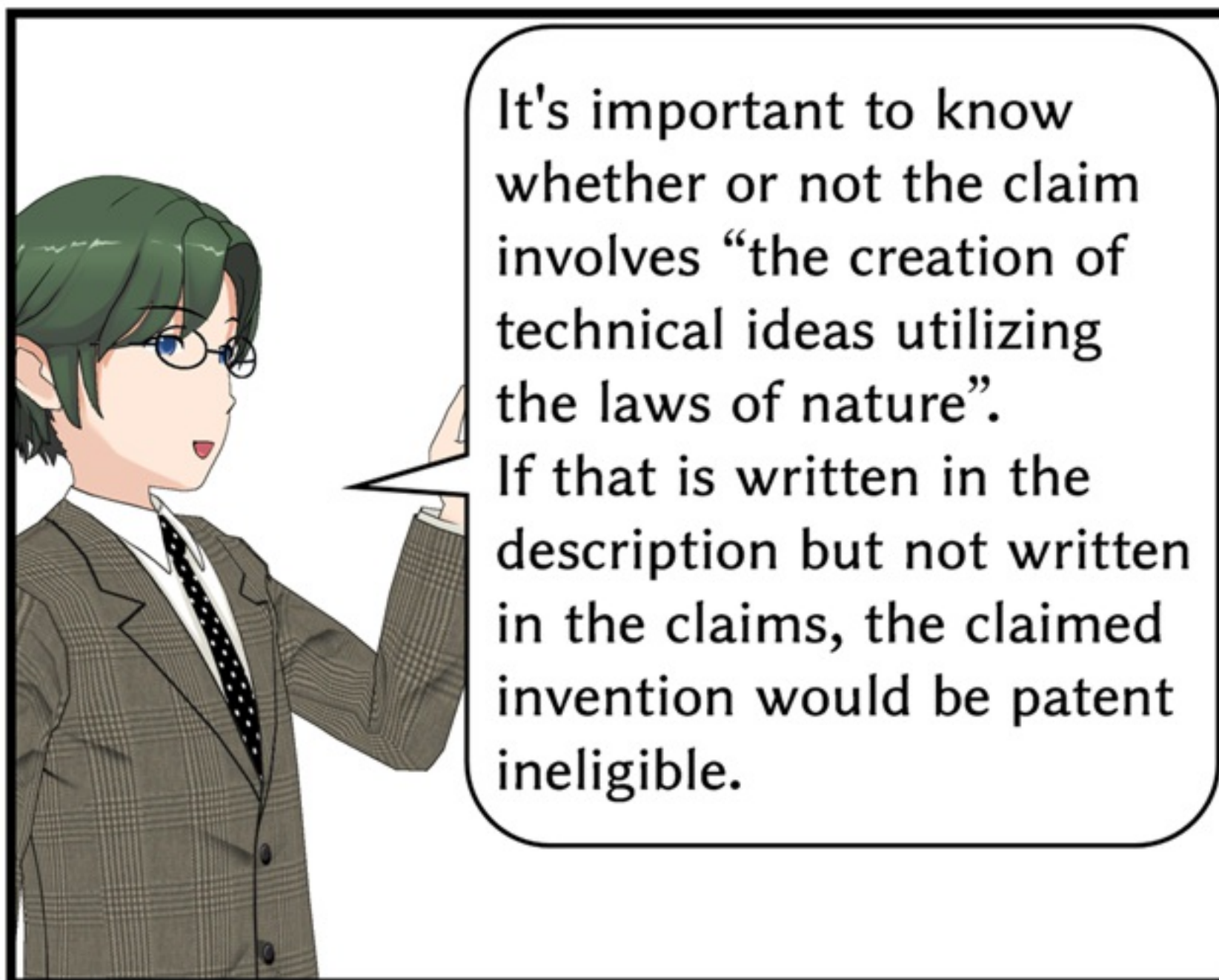


The patent system protects technical ideas.  
A claim that does not contain technical elements is not patentable and is rejected on the grounds that the claimed invention is not an "invention", i.e., it is patent ineligible.

Yes, it was mentioned in the AI and IoT Case Examples, but it was difficult for me.



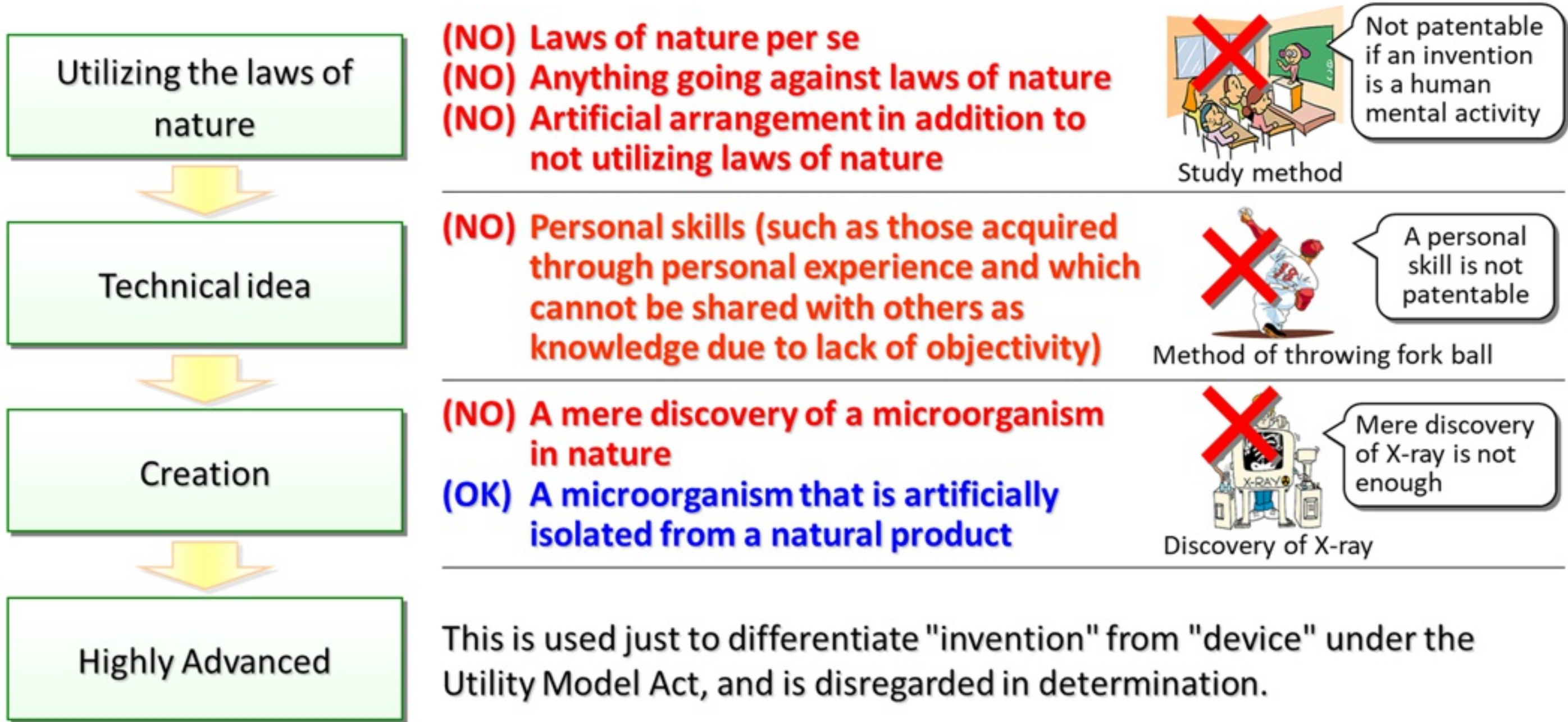




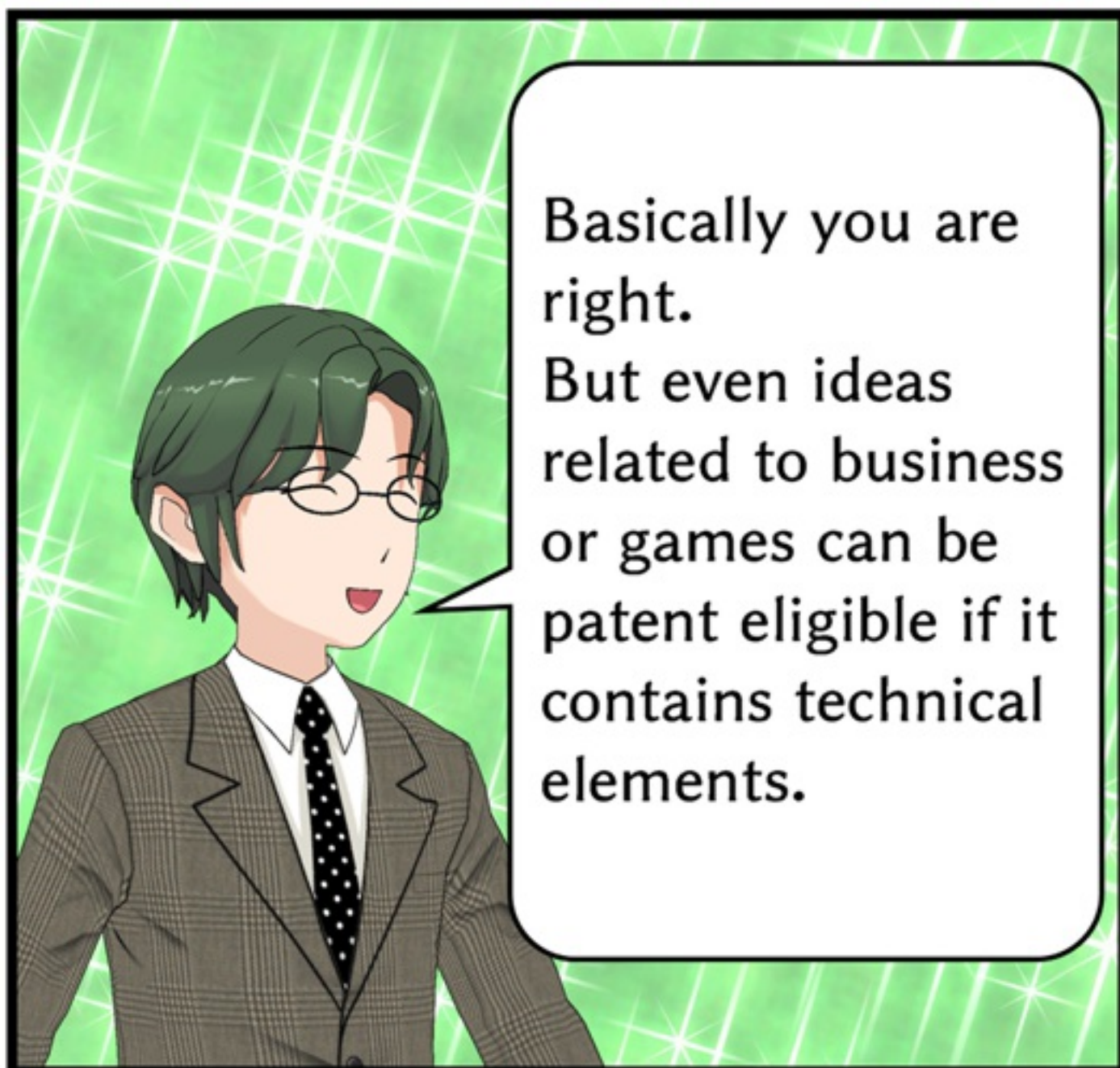
# Patent Eligibility

Act. 29(1) A person that invents an **invention** with industrial applicability may obtain a patent for that invention, ....

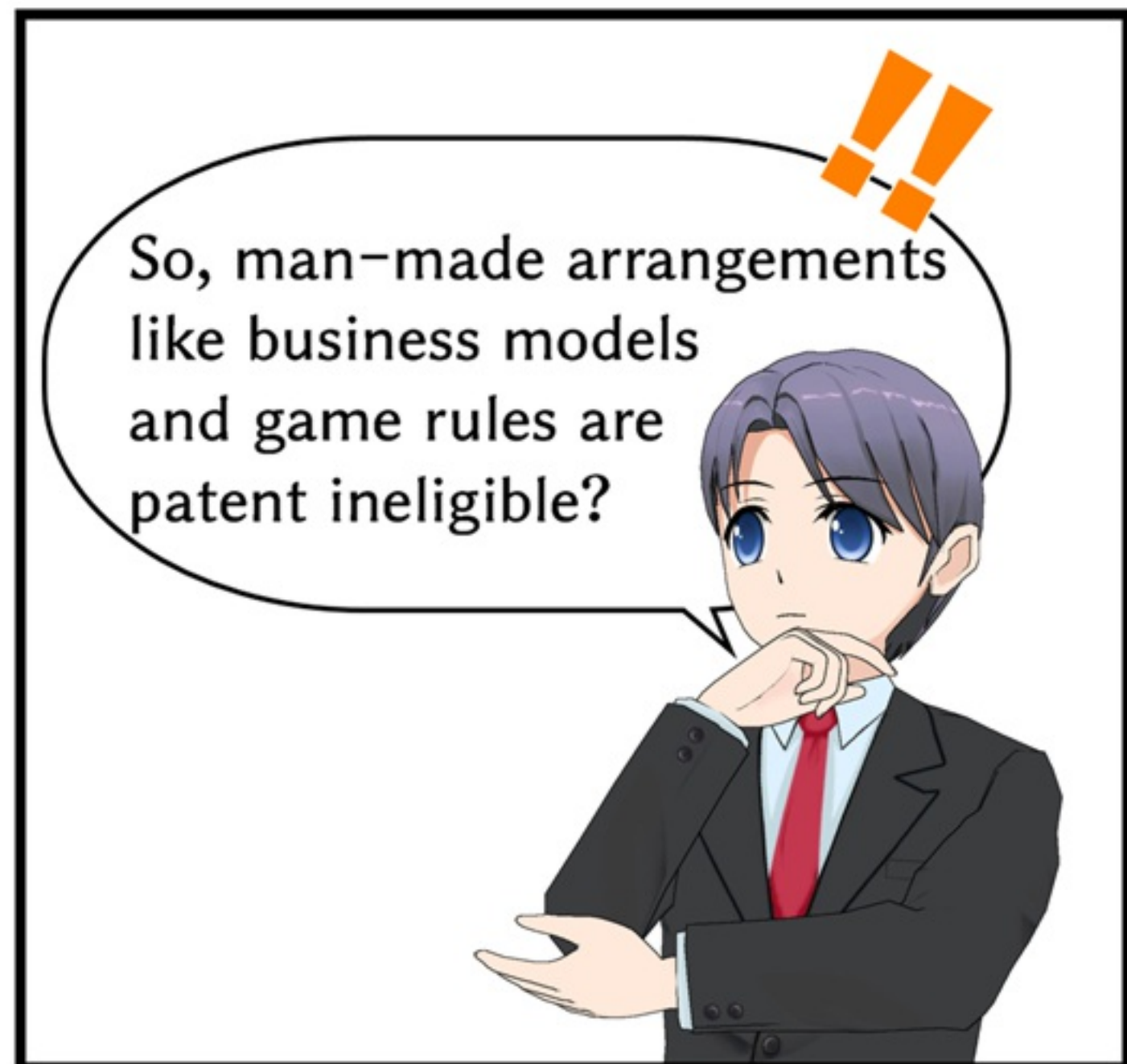
Act. 2(1) The term "invention" as used in this Act means **a highly advanced creation of technical ideas utilizing the laws of nature.**



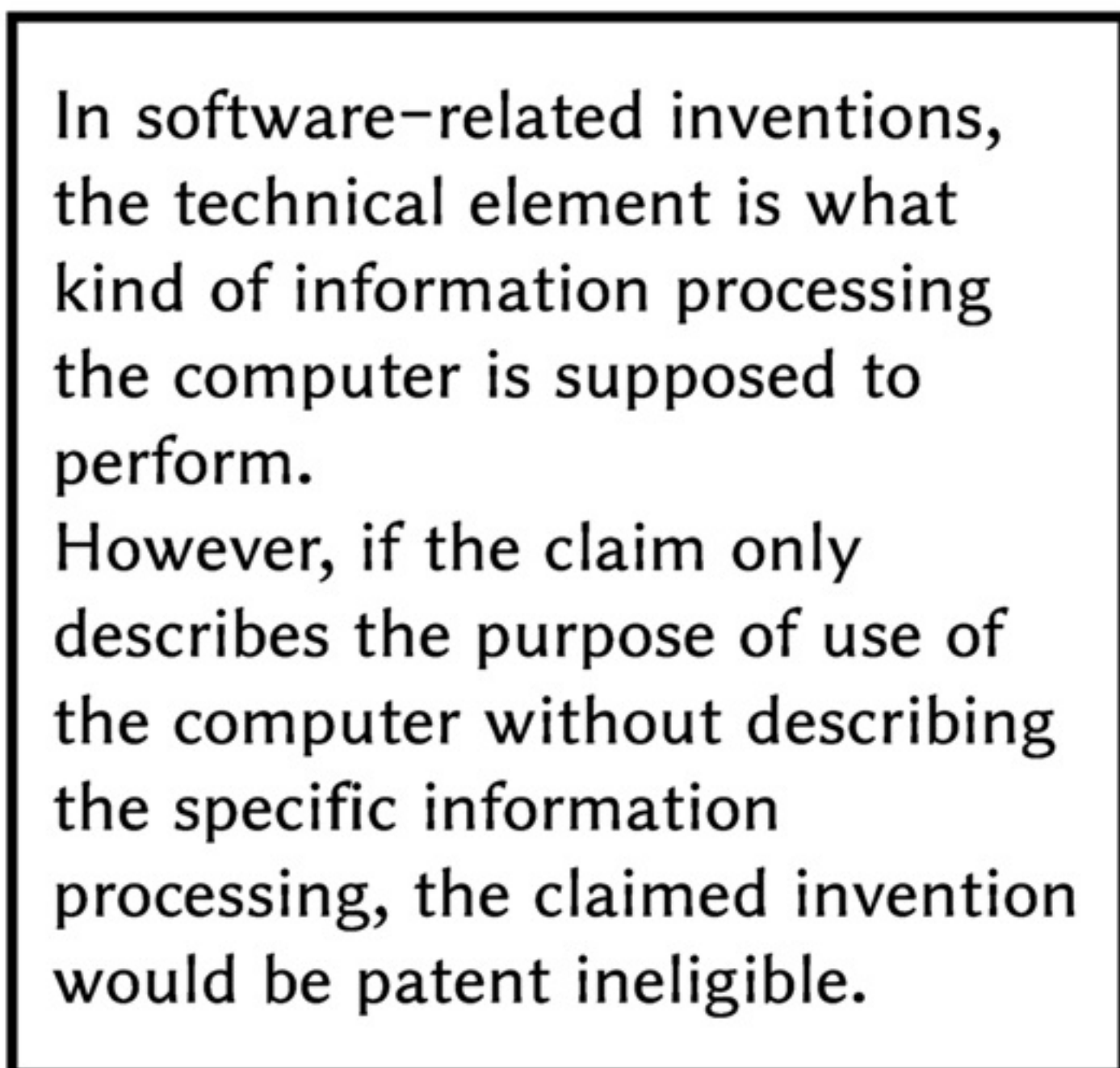




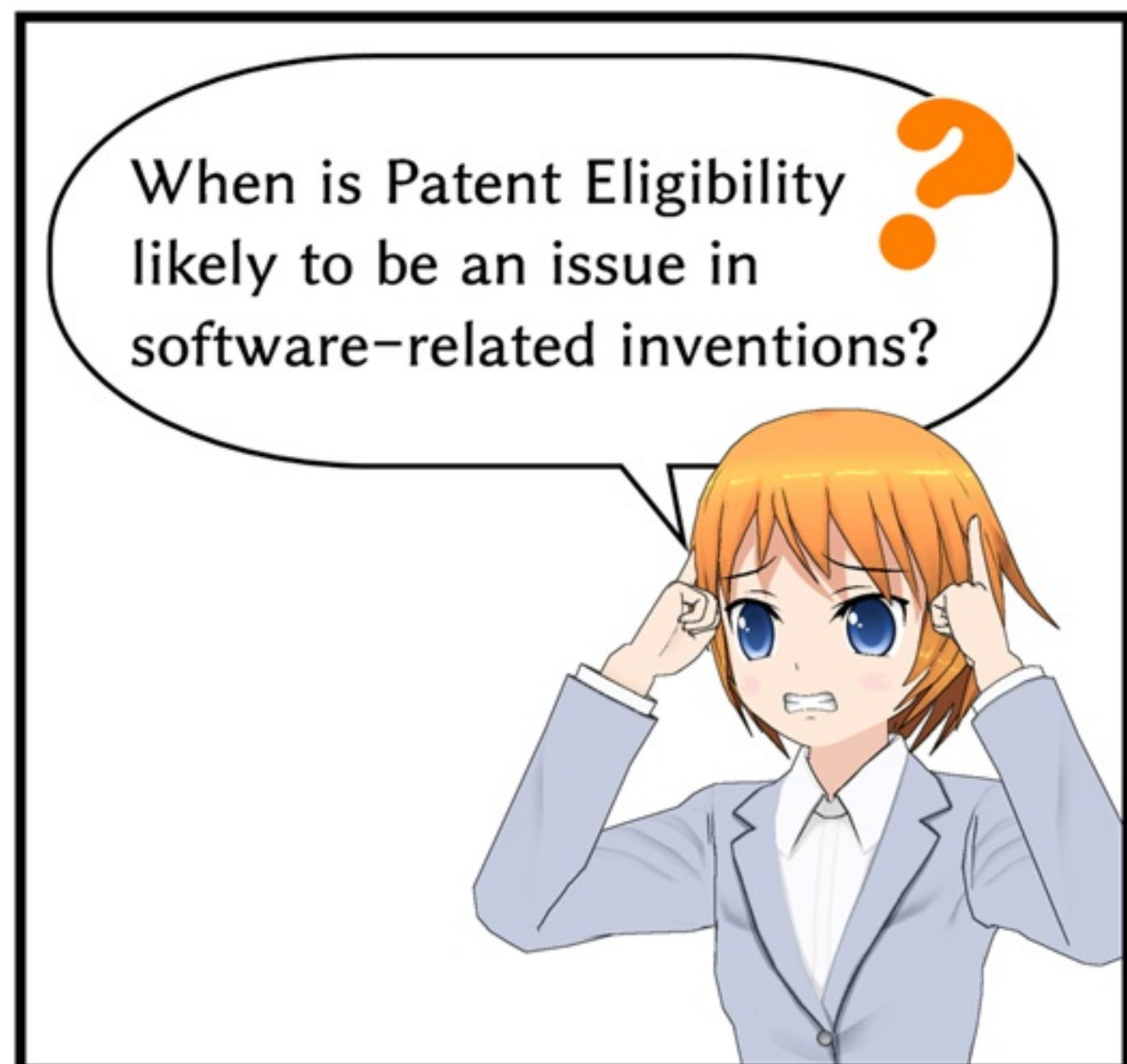
Basically you are right.  
But even ideas related to business or games can be patent eligible if it contains technical elements.



So, man-made arrangements like business models and game rules are patent ineligible?



In software-related inventions, the technical element is what kind of information processing the computer is supposed to perform.  
However, if the claim only describes the purpose of use of the computer without describing the specific information processing, the claimed invention would be patent ineligible.



When is Patent Eligibility likely to be an issue in software-related inventions?

### Summary

- ✓ A patent application contains the description, claims and abstract.
  - ✓ Drawings are not essential.
- ✓ The claims describe the scope of the patent rights for which protection is sought.
- ✓ The claims must meet the Clarity and Support Requirements.
- ✓ The description should include a detailed explanation of the invention.
  - ✓ The description must meet the Enablement Requirement.
- ✓ Broad claims are more likely to be rejected as novelty or inventive step.
  - ✓ Also be careful of the Description Requirements for the broad claims.
- ✓ The Patent Act protects "inventions".
  - ✓ A highly advanced creation of technical ideas utilizing the laws of nature.



In the next chapter, we'll learn about Patent Eligibility!