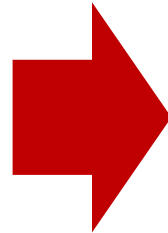


# Case summary

- **Pony**

Patentee of an invention regarding supply of spectacle lenses (the Invention)

- Patent No. 20221027
- Filing Date: September 24, 2007
- Registration Date: April 23, 2008



- **Donkey**

Company using a spectacle lens edging system called “Meganetic” (the System)

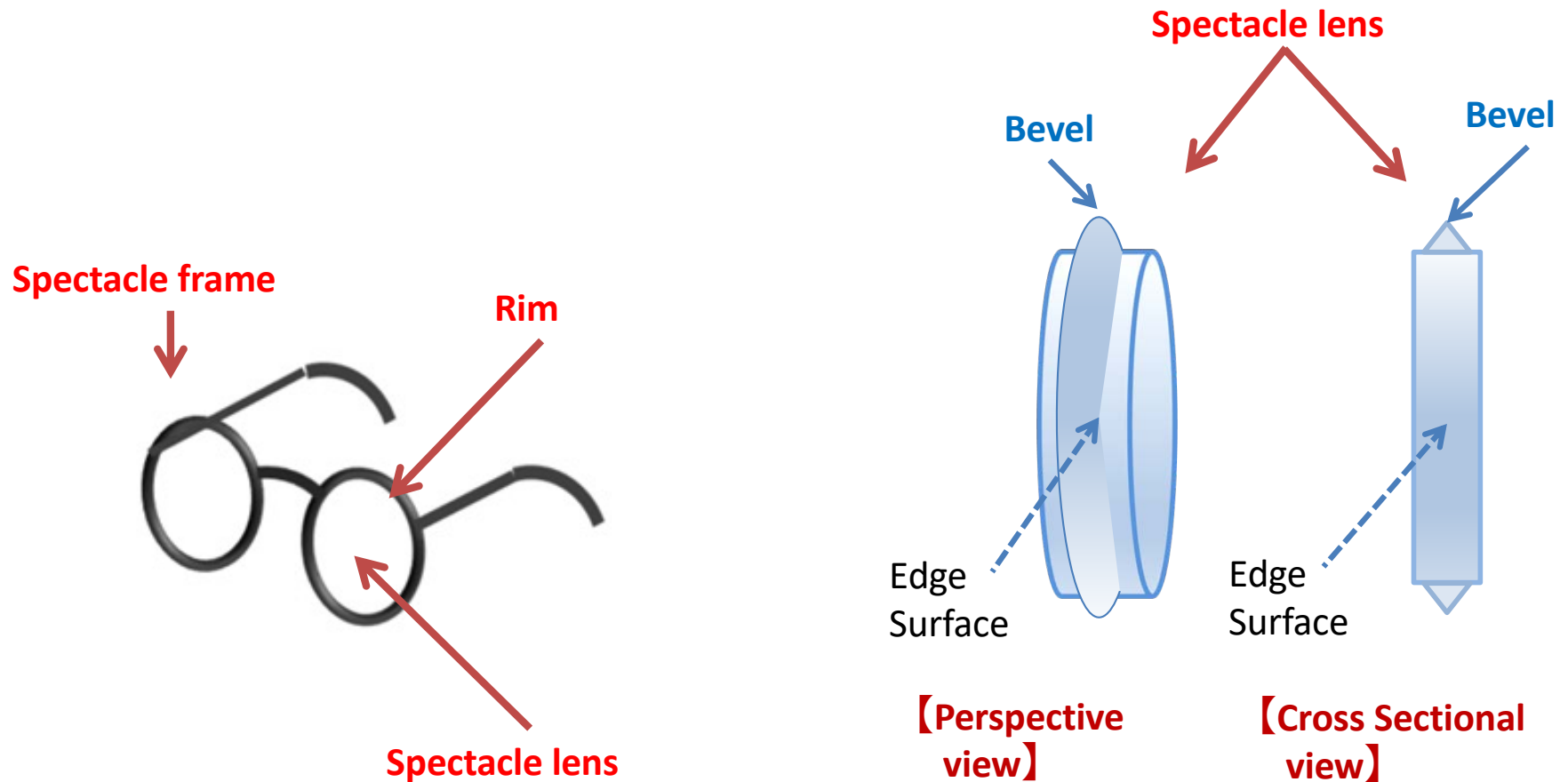
- Started to use the System on October 1, 2021.

On January 31, 2022, Pony filed a patent infringement lawsuit against Donkey, seeking:

- Injunction against the use of the System

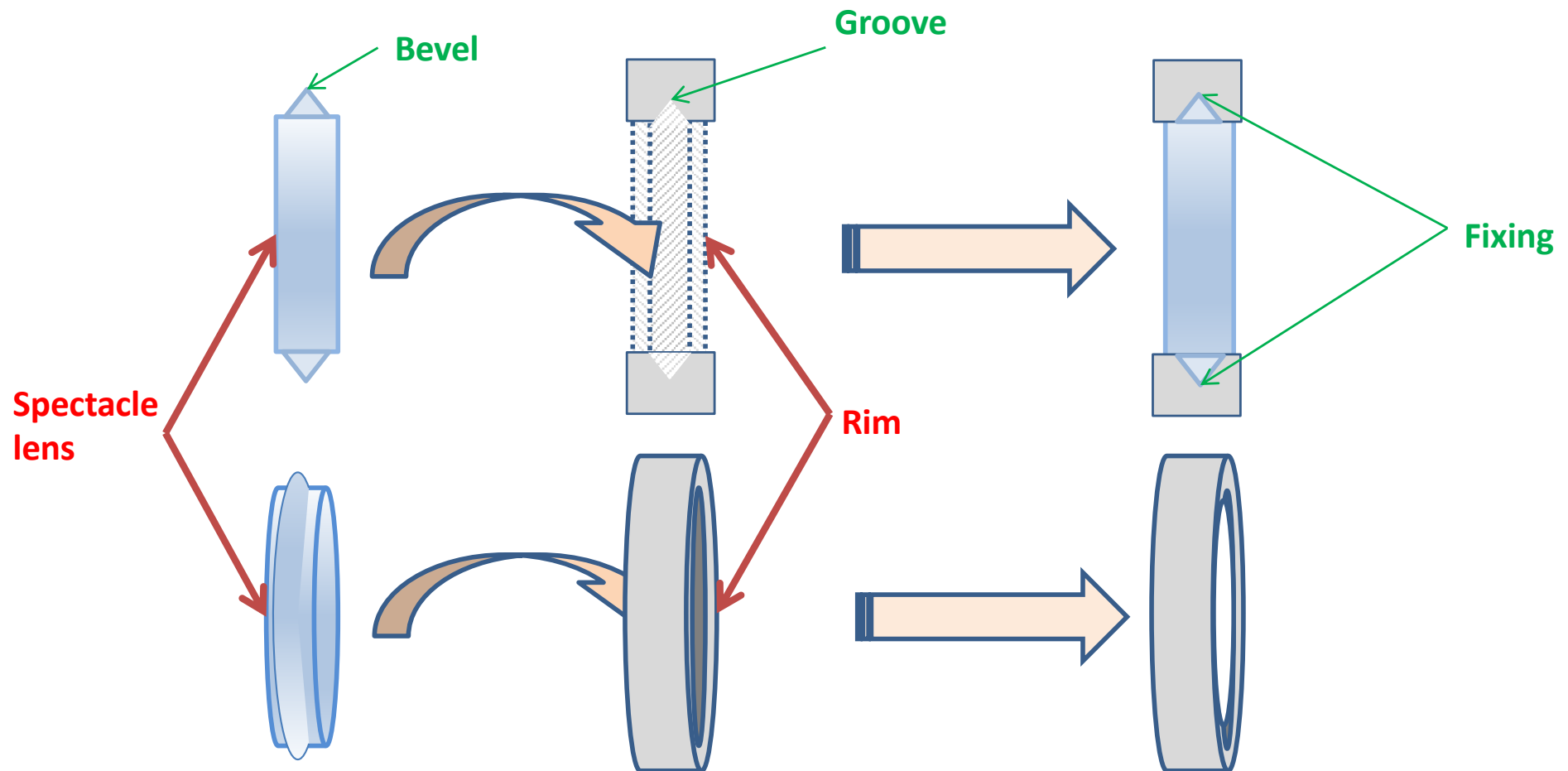
# What is “bevel”?

The term “bevel” refers to a convex protrusion formed on the edge surface (the side surface of the edge) of a spectacle lens along with the circumference of the spectacle lens.



# What is "bevel"?

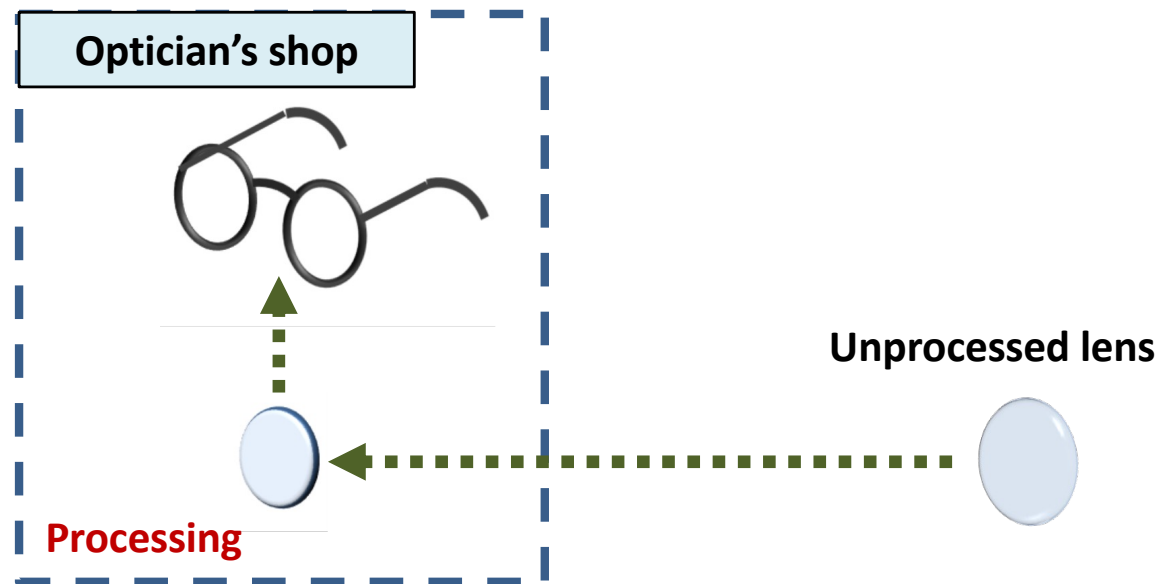
The reason for forming a "bevel" on a spectacle lens is to prevent a spectacle lens from coming off a spectacle frame.



# Processing of spectacle lenses

## When lenses are processed at an optician's shop

An optician's shop has both frames and unprocessed lenses.  
Unprocessed lenses are processed at the optician's shop.



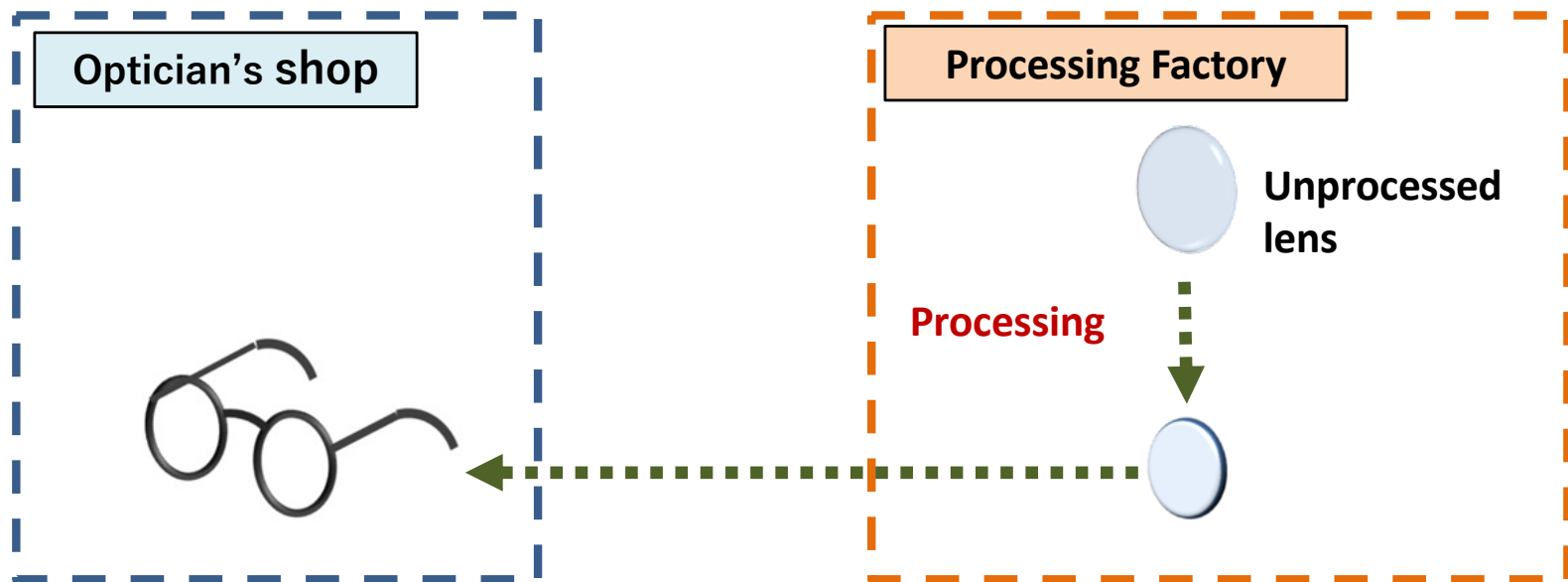
# Processing of spectacle lenses

## When lenses are processed at a lens processing factory

An optician's shop has frames.

A lens processing factory has unprocessed lenses.

The lens processing factory processes the unprocessed lenses.



**The lens processing factory cannot confirm that the processed lenses will be accommodated in the rim.**

# Problems of conventional technology / Purpose of the Invention

## Problems:

- Possibility that the processed lenses delivered to the optician's shop from the lens processing factory are too large to fit in the rim
- Possibility that the processed lenses have some defects such as fitting loosely, leaving gaps between the processed lens and the rim

## Purpose:

To provide a spectacle lens edging system that allows spectacle lenses to be fitted to the rim of a spectacle frame with a high degree of certainty and efficiency, even when the spectacle lenses are processed at a location where the spectacle frame is not immediately at hand.

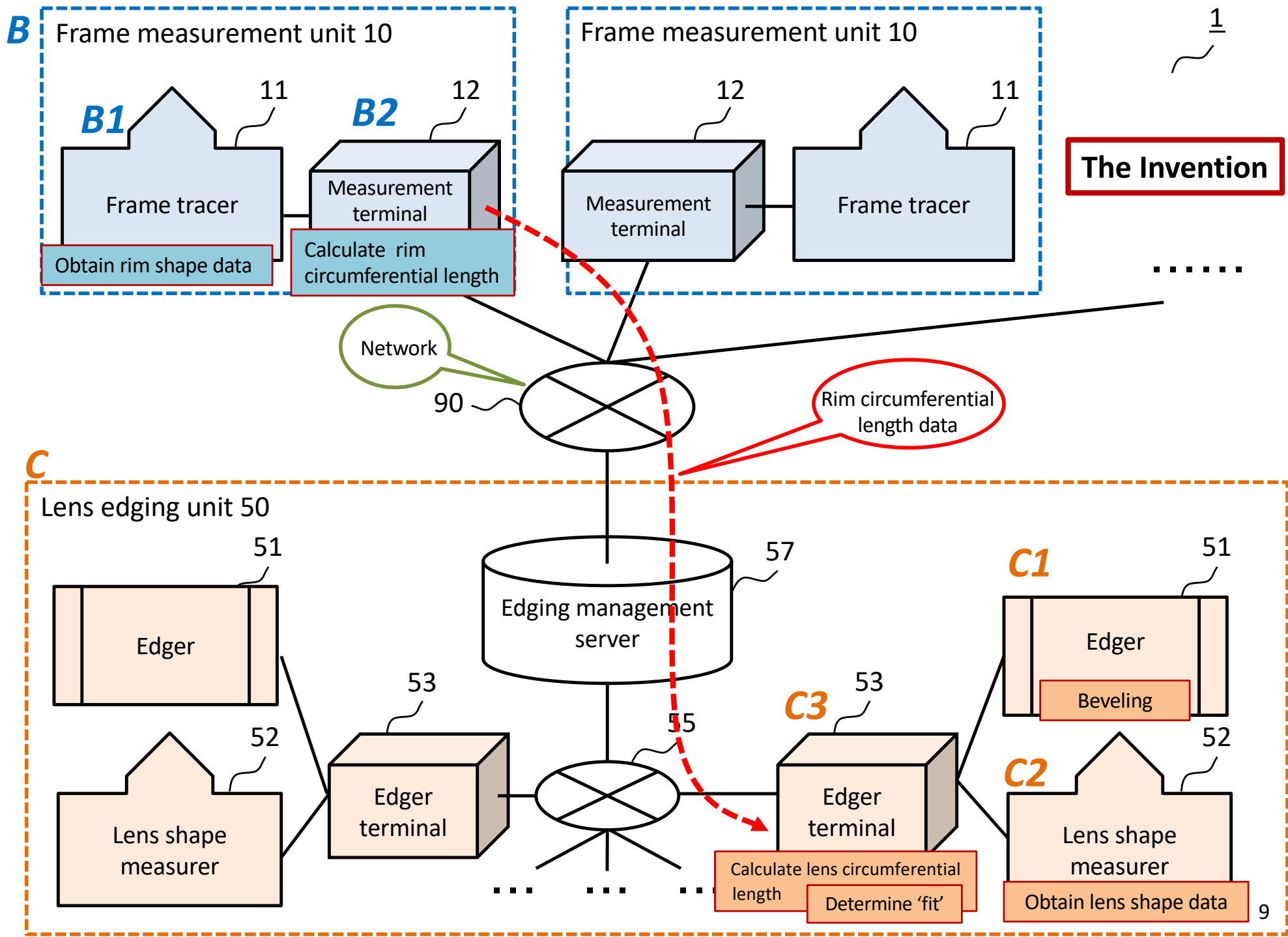
# Scope of claims

- A** A spectacle lens edging system comprising: a frame measurement unit for measuring a three-dimensional shape of a rim of a spectacle frame; and a lens edging unit, connected to the frame measurement unit via a network, for beveling a spectacle lens,
- B** wherein the frame measurement unit comprises:
  - B1** a frame tracer configured to obtain rim shape data regarding the three-dimensional shape of the rim;
  - B2** a measurement terminal configured to calculate the rim circumferential length along a groove of the rim based on the rim shape data and to transmit data of the rim circumferential length to the lens edging unit, and

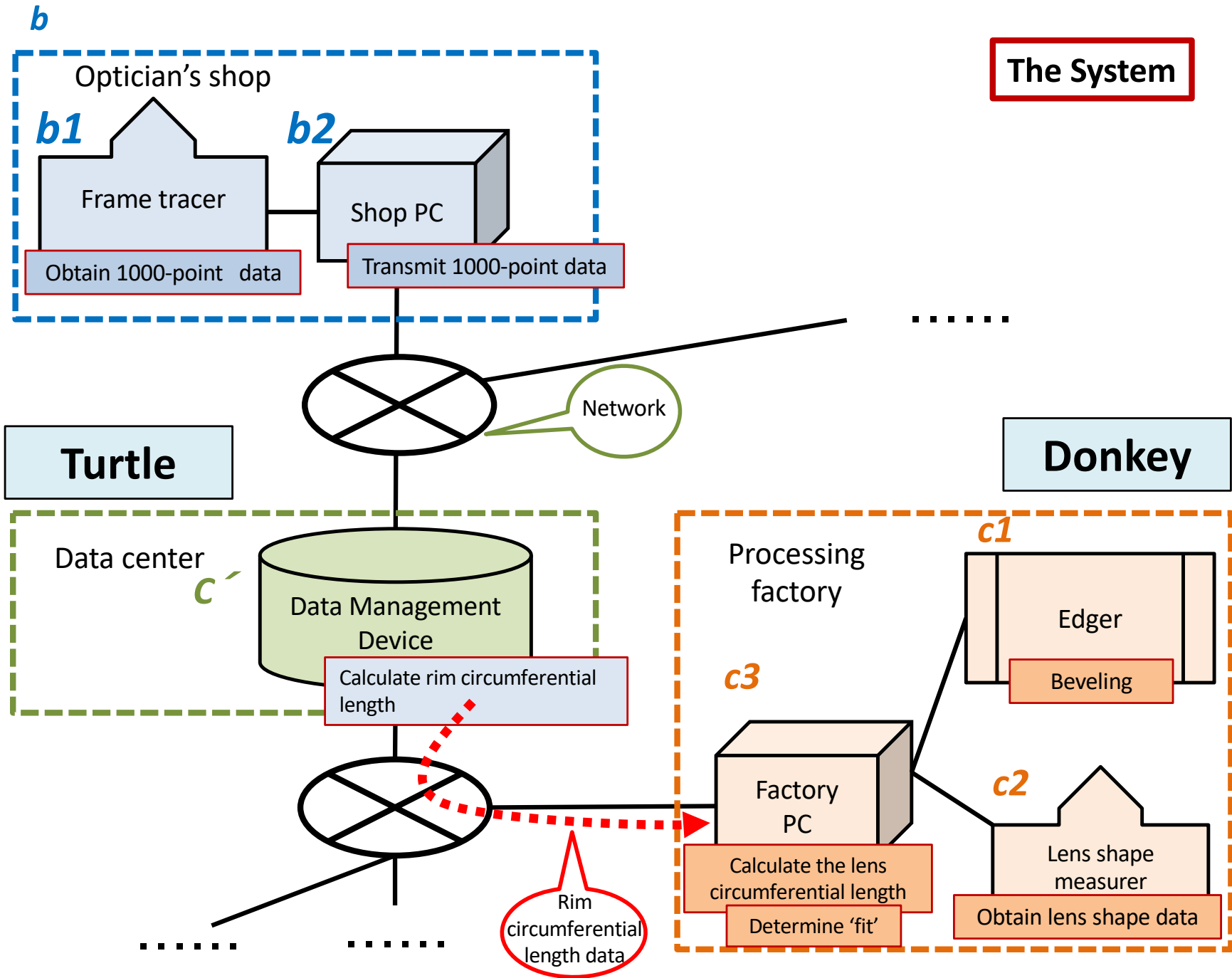
# Scope of claims

- C** wherein **the lens edging unit** comprises:
- C1** an **edger** configured to bevel a spectacle lens based on prescribed edging conditions;
  - C2** a **lens shape measurer** configured to obtain lens shape data regarding the three-dimensional shape of the beveled spectacle lens; and
  - C3** an **edger terminal** configured to calculate **the lens circumferential length** along the bevel top of the beveled spectacle lens based on the lens shape data and to determine that the beveled spectacle lens can be fitted to the rim of the spectacle frame if the difference between **the lens circumferential length** and **the rim circumferential length** received from **the measurement terminal** of **the frame measurement unit** is within a prescribed range.

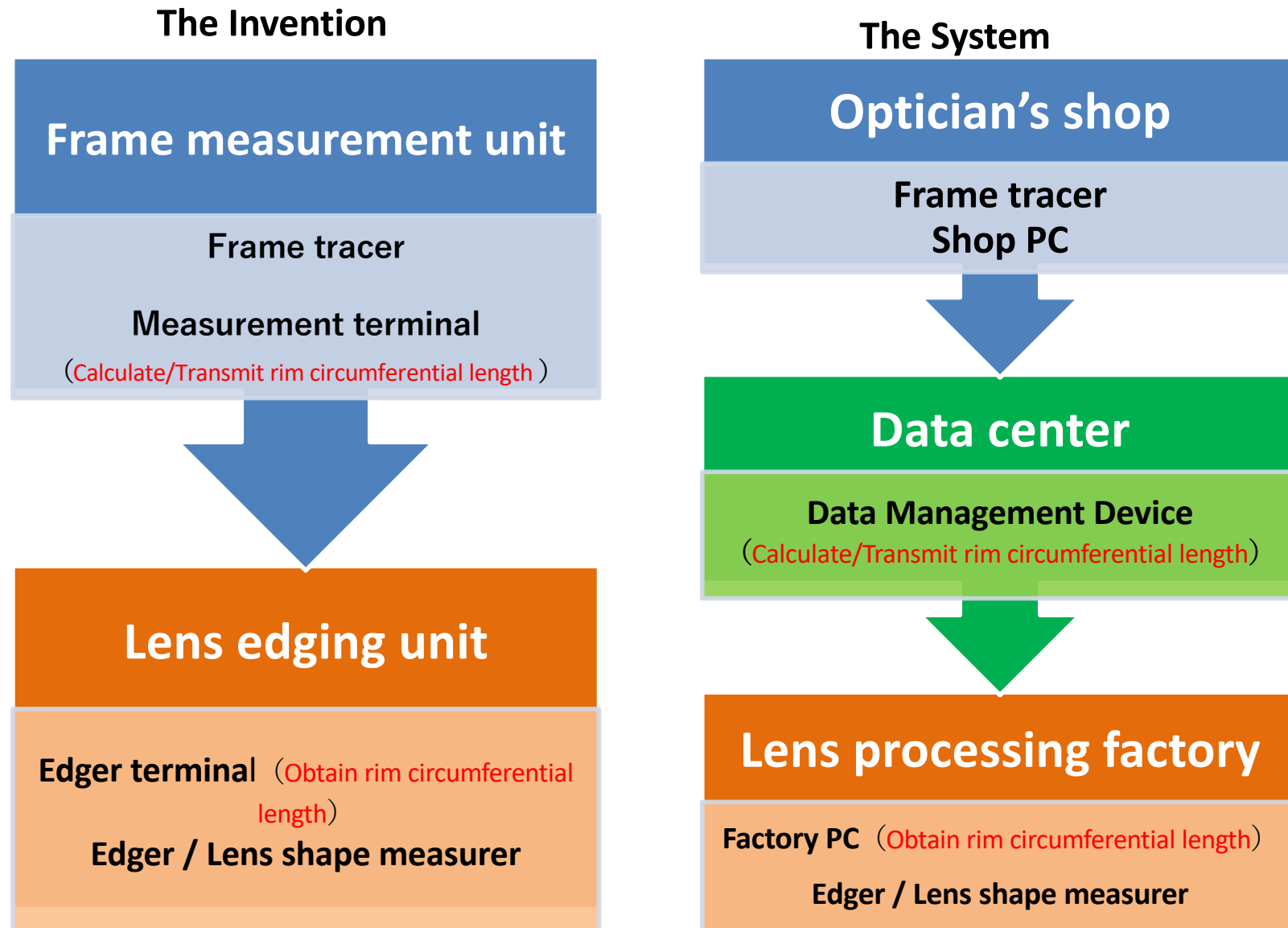




**The System**



# Comparison of the Invention and the System



# Whether the System Satisfies Elements of the Invention (Arguments of plaintiff)

## Frame measurement unit

The Data Management Device of the System corresponds to the “measurement terminal” of the “frame measurement unit” of the Invention.



Elements B2 (a measurement terminal configured to calculate the rim circumferential length), and C3 (the rim circumferential length received from the measurement terminal of the frame measurement unit) are satisfied.

## Lens edging unit

### Optician's shop

Frame tracer  
Shop PC

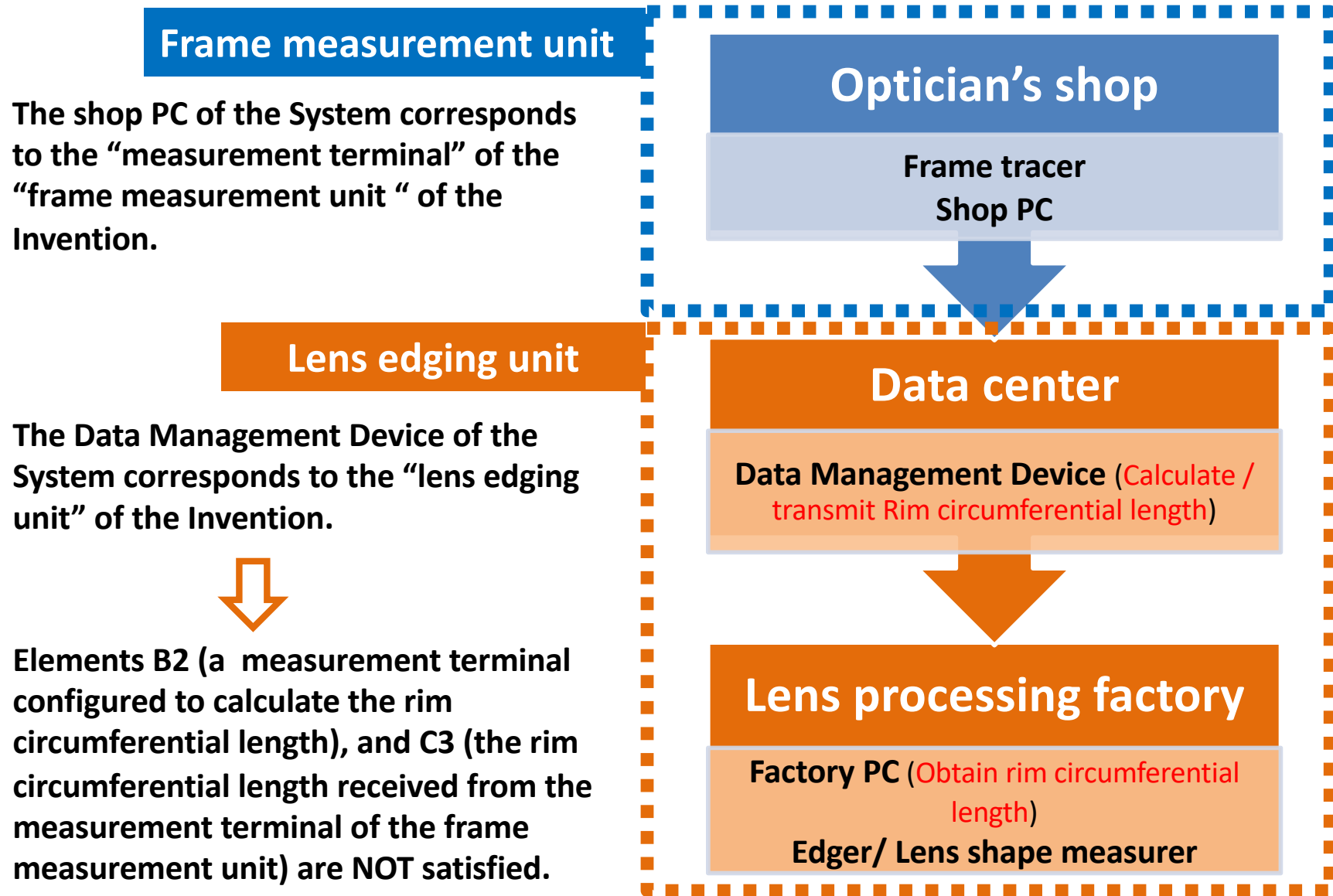
### Data center

Data Management Device  
(Calculate/Transmit rim circumferential length)

### Lens processing factory

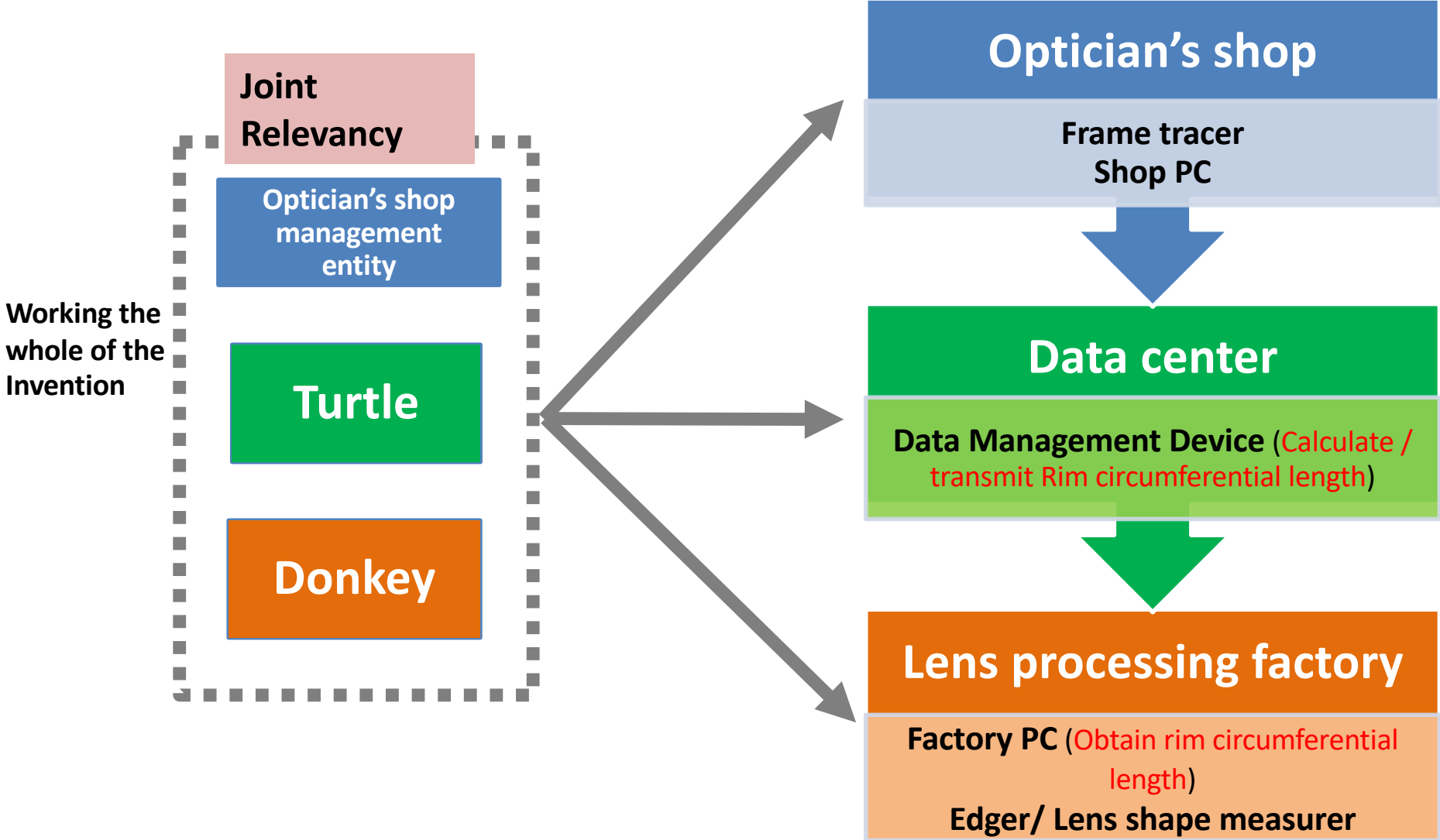
Factory PC (Obtain rim circumferential length)  
Edger / Lens shape measurer

# Whether the System Satisfies Elements of the Invention (Arguments of defendant)

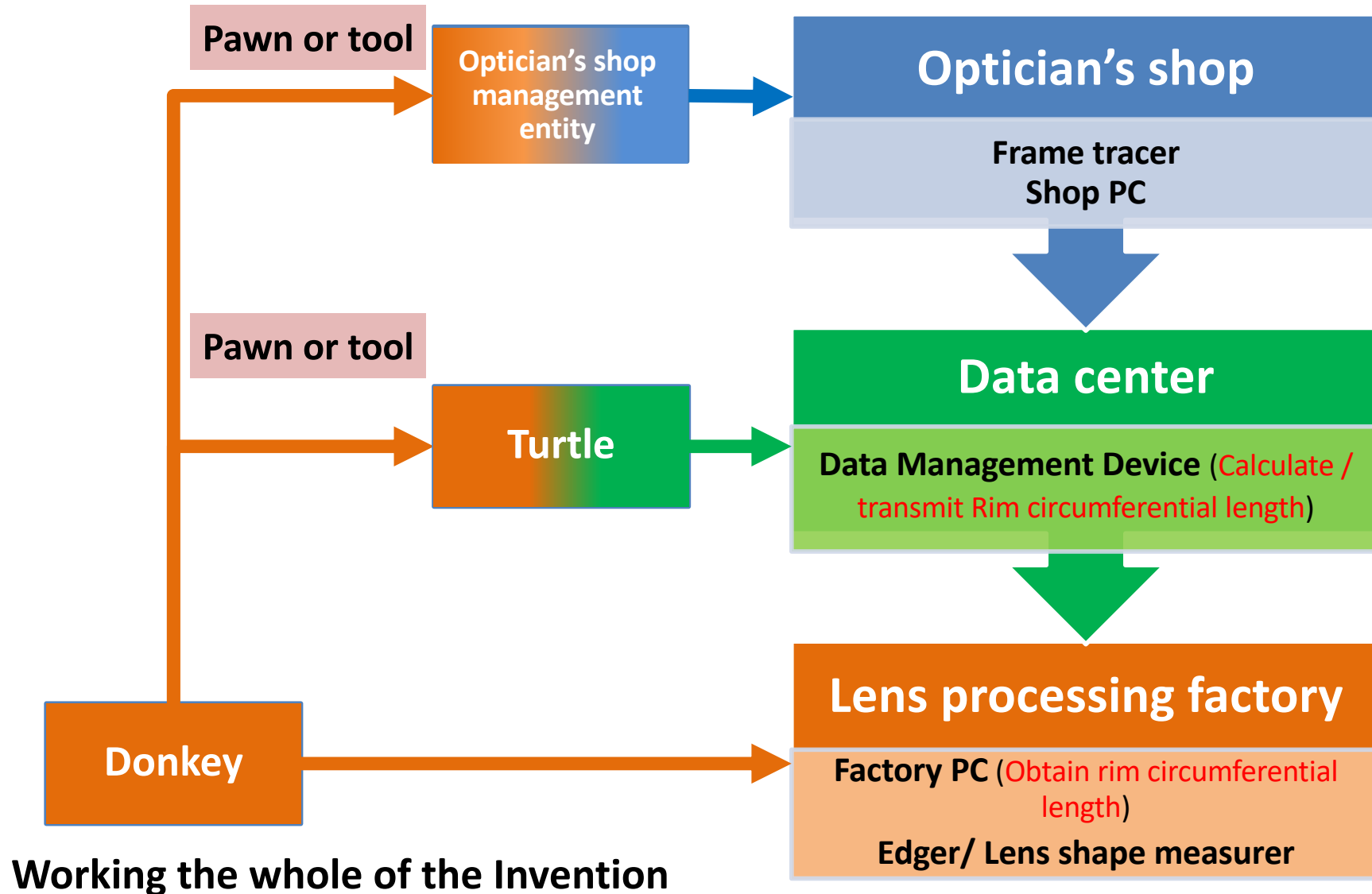


# Whether patent infringement is established or not

## (Arguments of plaintiff (1))



# Whether patent infringement is established or not (Arguments of plaintiff (2))



# Whether patent infringement is established or not (Arguments of Defendant)

