Function Writing Exercises

These Exercises begin with simpler functions and progress to “confusing functions”. The rules to function writing are found in the appendix to “TRIZ Power Tools—Job #5 Resolving Problems”
Everyday Language | Functional Language

The Ball Breaks the Glass
The Ball Breaks the Glass
The bearing holds the rod
The bearing holds the rod.
The pipe conducts the liquid
The pipe conducts the liquid
The wire conducts electricity
The wire conducts electricity

Fuzzy Term

Wire

Conducts (controls path)

Charges
The cap seals the bottle
The cap seals the bottle
The lightening rod protects the house
The lightening rod protects the house.
The Thermometer measures the temperature
The Thermometer measures the temperature
The gold improves the reliability

Shown is a sliding contact switch. Gold coats the switch arm and the contacts that stick up.
The gold improves the reliability.

Everyday Language | Functional Language

- **Gold**
  - Conducts (controls the path)
  - Holds (controls the position)
  - Stops (controls the position)
  - Charge

- **Conductors**
- **Oxy / H₂O**
The paint stops deterioration
The paint stops deterioration.
The toothbrush brushes the teeth?
The toothbrush brushes the teeth.
The Oil Lubricates the piston
The Oil Lubricates the piston

- **Bore**: Positions (Controls Position)
- **Oil**: Guides (controls path)
- **Piston**: Restrain (Friction)