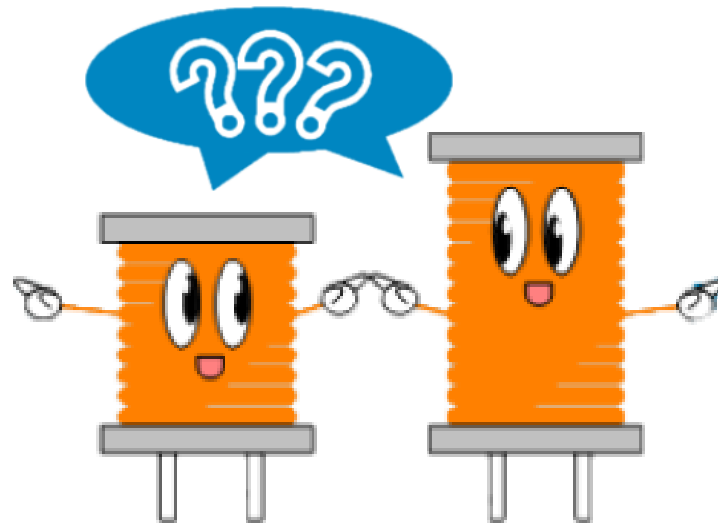


# Dear Rookie of the Coil

## Chapter 1 What's the Coil ?

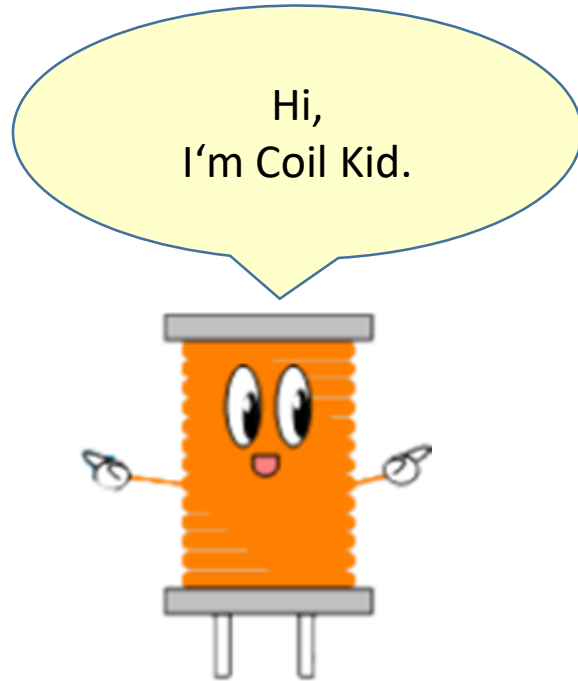


SAGAMI ELEC CO., LTD.

# Welcome to the Coil World!

Nice to see you!! We are SAGAMI ELEC. CO., LTD.

We specialize in “Coils” which are used for lots of electric devices.

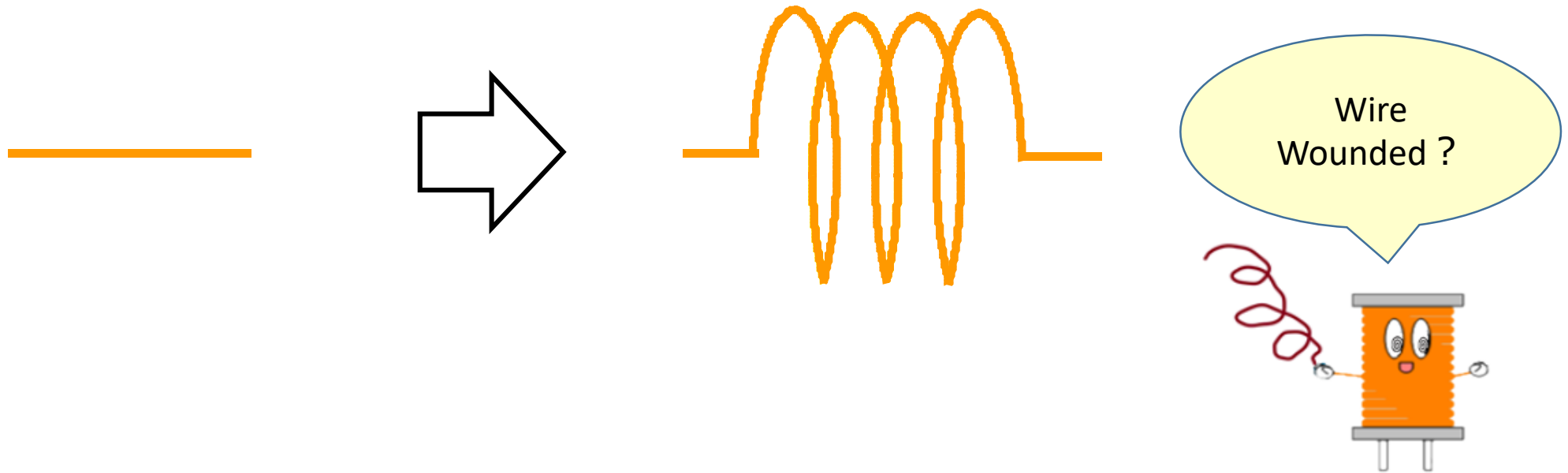


For those who are not familiar with Coils,  
We would like to explain it very simply  
and very easily.

So are you ready??

# What is Coils?

In simple words, Coils are “Wire Wounded things.”  
General meaning, springs are also categorized as Coil.



# Principles of Coils

We understand it is so hard for Rookies to imagine Coils even though we explained that Coils are “Wire Wounded things” last page.

Here, We are trying to explain about what a Coil is base on the simple experiment.

A Ring made of Enameled Wire is a coil.

When an electric current is flowed through a coil, Magnetic field is generated.

We made a movie that when Magnetic field is generated Iron-sand is moving.

Please watch! ⇒

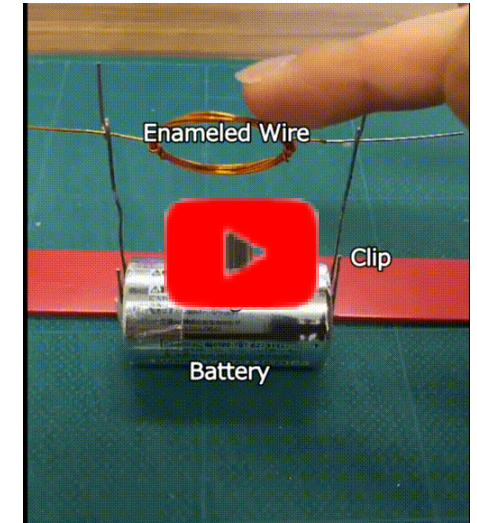


# Principles of Coils

How to assemble a Clip Motor.

Battery, Magnet, Clip and Enameled Wire are materials in this clip Motor.

Please watch! ⇒

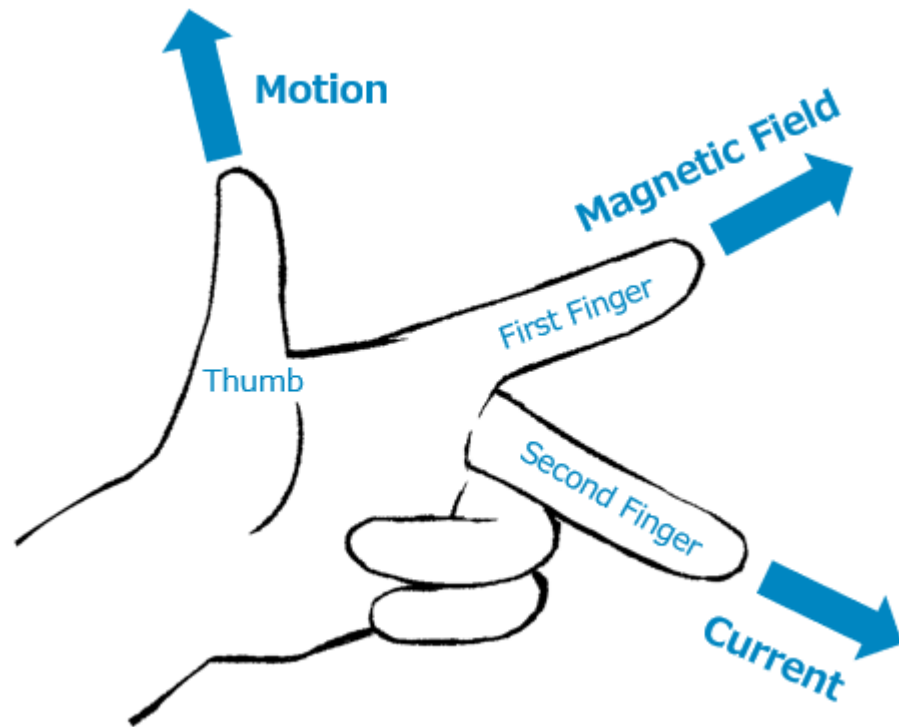


It is a mechanism that when the Magnetic Fields generated from the coil and the one from the Magnet repel each other, a coil would spin around naturally as shown in a movie.

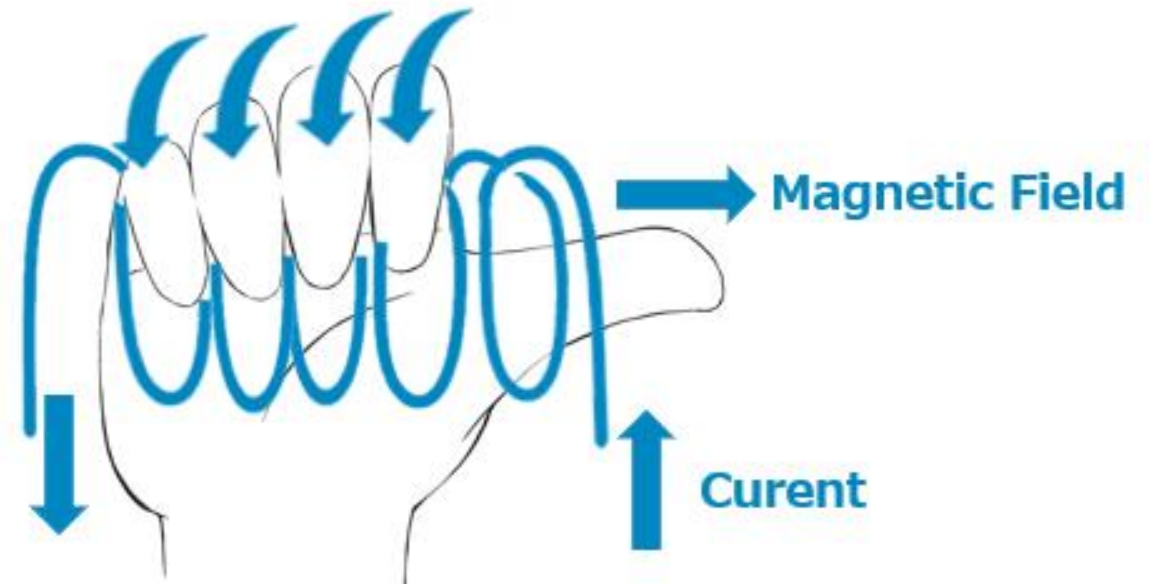
This Motor is taking advantage of the nature of repelling between Magnetic Fields and Magnet generated from the Coil.

# Principles of Coils

Do “Fleming’s Left-Hand Rule” or “Right-Hand Rule” ring a bell with you?



Fleming's Left-Hand Rule

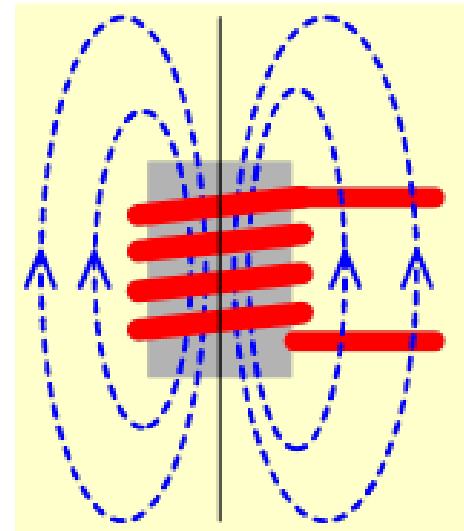
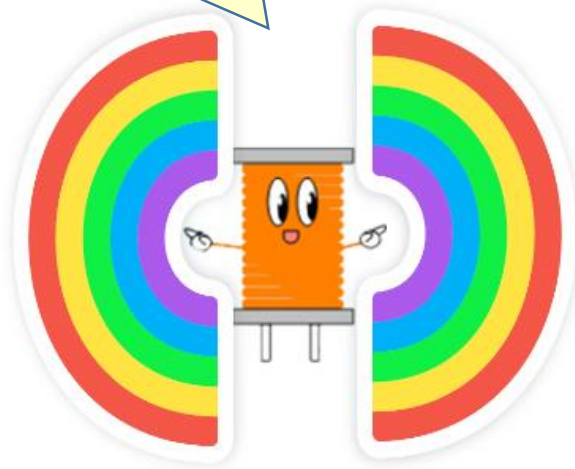


Right-Hand Rule

# Principles of Coils

We will talk about a coil as an Electronic Components from now on.

Magnetic Field is generated when an electronic current flows through me.



To be continued...

