Tohoku Univ./
Tohoku Institute of Technology
Technology Introduction

Transducer, Force Sensor and Sensor Unit

Tactile Sensor with a Sense Similar to Humans

Overview

To get robots to do their jobs just like people do, it is important for the robot to install a sensor that can sense the same sense as humans.

Conventionally, various types of sensors have been proposed, but they have problems such as a **complicated structure and a complicated fabrication process**.

In the invention, a transducer is fabricated by forming a magnetic foam to cover a coil that provided on an electric substrate.

Since the transducer is **simple to fabricate** and **can sense a force from inductance displacement even with a small compressive stress,** the invention is expected to solve the above problems.

Product Application

- Robot, Sensor

IP Data

IP No. : JP 7505723
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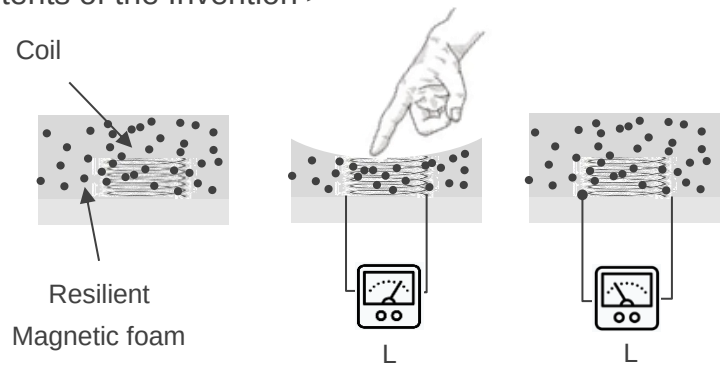
Admin No. : T21-171

Features・Outstandings

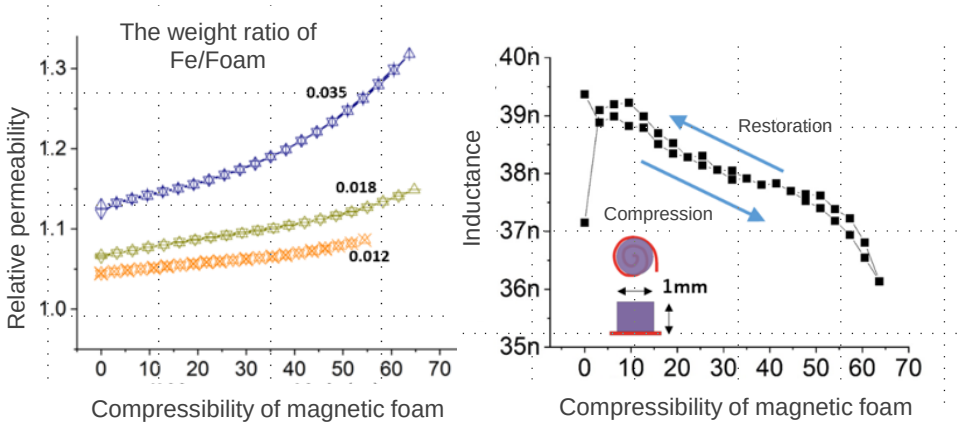
< Contents of the Invention >



・Magnetic foam is fabricated on coil.

・A change in pressure is **sensed inductance displacement.**

<Properties>



・**The inductance displacement applies for such as sensor.**

Contact

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