

## 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

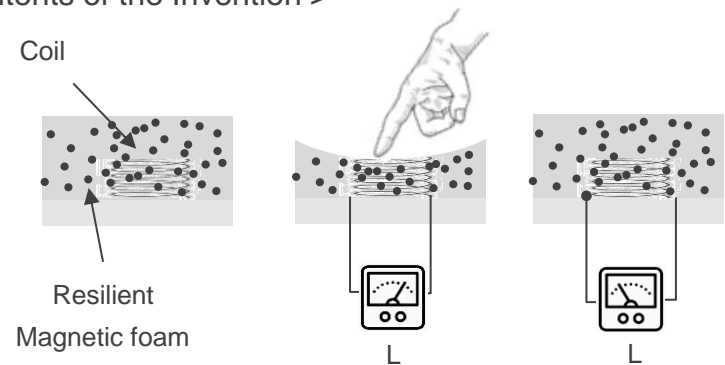
- Robot, Sensor

#### IP Data

IP No. : JP 7505723  
 Inventors : DIGUET Gildas, FROEMEL Joerg Eckhardt, OHTAKA Koichi  
 MUROYAMA Masanori  
 Admin No. : T21-171

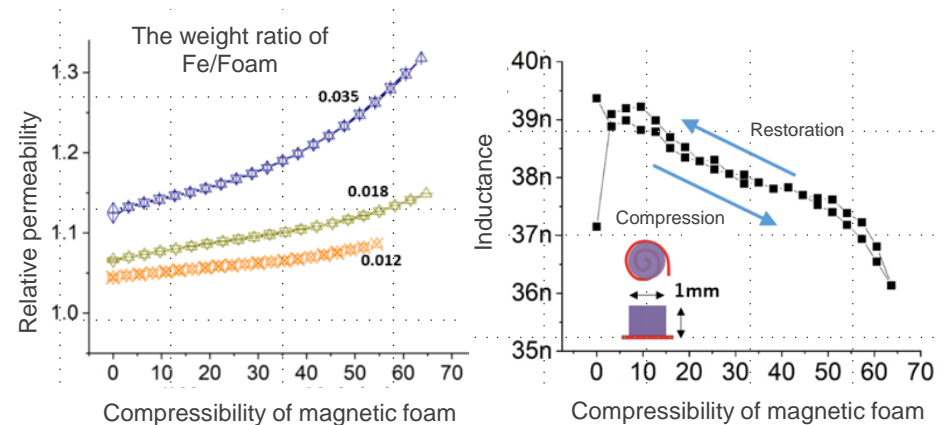
## Features · Outstandings

< 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

Download OnePager



Contact

<https://www.t-technoarch.co.jp/en/contact.html>



Check Out Our Inventions

<https://www.t-technoarch.co.jp/en/anken.php>



Follow us

<https://www.linkedin.com/company/tohoku-techno-arch>



# Leading you to Successful Industrialization



**TOHOKU TECHNO ARCH**

株式会社 東北テクノアーチ