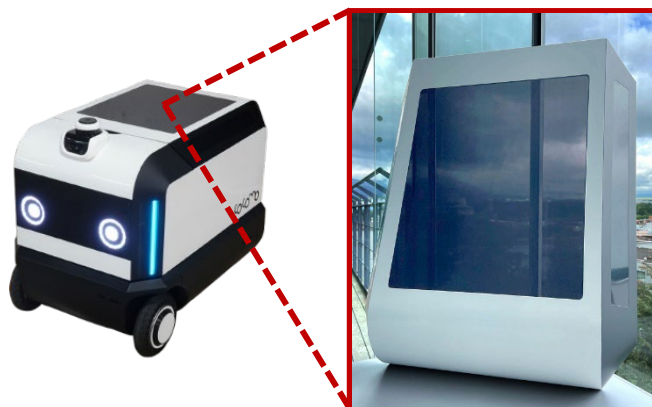

Joint Development of a Component Using Cellulose Nanofibers for an Autonomous Robot with Toyota Motor East Japan, Inc.

Oji Holdings Corporation (President: Hiroyuki Isono; Head Office: Chuo-ku, Tokyo) and Toyota Motor East Japan, Inc. (President: Hiroyuki Ishikawa; Head Office: Kurokawa-gun, Miyagi; hereinafter, "TMEJ") announced today that a component using Cellulose Nanofibers (hereinafter, "CNF"), which are highly transparent and rigid, was installed in an autonomous robot that was demonstrated and exhibited at the venue of the 10th round of the TOYOTA GAZOO Racing Rally Challenge at Rifu, which was held on September 29.

Oji Holdings is driving Green Innovation, focusing on soundly cultivating forests and developing new renewable wood-derived materials utilizing resources from forests, aiming to contribute to a sustainable society. As one of its pillars of Green Innovation, Oji Holdings is working on the research and development of CNF and has established the world's first technology for manufacturing transparent CNF sheets. The company has continued its research and development efforts in the area of polycarbonate resins composite including these CNF sheets (hereinafter, "CNF Composite Materials"), aiming to identify applications such as automotive window glass and other products.

Now, TMEJ has developed a canopy for an autonomous robot using a CNF Composite Material. Conventional canopies are opaque and use a reinforcing material on the back to ensure rigidity. In contrast, canopies made using CNF Composite Materials, which are highly transparent and rigid, enable new see-through designs. In addition, they do not require a reinforcing material, helping simplify the assembly process and increase the load volume. This also reduces the weight of the vehicle body, which is expected to reduce the power used for movement.

Oji Holdings will contribute to the establishment of a sustainable society by further expanding society's implementation of CNF.



Autonomous robot produced
by TMEJ



Canopy produced
for the robot



Polycarbonate composite
using transparent CNF
sheets

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