A Magical Device for Recovering Micro-sludge Floating on a Liquid Surface Keywords [floating oil, carbon scum, microplastics] Professor, Yasuo KONDO

Collecting micro-sludge on the surface of porous media while the liquid containing micro-sludge is flowing on porous media.

Cross-flow type



Content:

A magical device is proposed to recover the floating media, such as floating oil spilled from tanker, carbon-scum accumulated in water-soluble coolant tank, microplastic mixed with seawater and river water.

Common filer has been often clogged while the micro-sludges are passing through the porous media. This means that it is difficult to recover the micro-sludges using the filter.

The recovery of floating oil and microplastics from sea and river water is also difficult, because they are tended to move as the liquid moves not as the solids, like a goldfish in the "goldfish scooping; Kingyo Sukui".

Well then, what should we do?

Appealing point:

We have been observing the flow characteristics of micro-sludges again and again, and finally we found the proposed magical device.

Yamagata University Graduate School of Science and Engineering Research Interest : Manufacturing

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