**Proposed Developments**

14.09.2017

1. **Anti-Fouling of Marine Objects via Wire based Transducer**

**Application**

* Radial transmission of ultrasonic waves through a solid wire (1mm-10mm diameter)
* Radial transmission can radiate long distances (up to 100m dia.)
* Transmission along a long length of wire (up to 100m)
* Wire can be straight or slightly bent (45deg, arc-curved) to accommodate structures or requirement.

**Description**

* A transducer device is coupled with a wire so as to induce US vibration in liquids
* The device is capable of encompassing a large volume of liquid
* The wire device can be fixed to structures as a means of preventing algae build-up
* The wire device can be contoured to follow marine structures

**Markets**

1. **Fish and Seafood Farming**

For the prevention of Algae Build-up on farm infrastructure such as nets and equipment

* Fish farms
* Other offshore and onshore sea food farms
* Protection of fish and other product against Sea Lice
1. **Marine Vessels**

Attachment of active wire to hull as a preventative fouling aid

* Ocean Shipping
1. **Harbours**

Positions along harbour walls so as to prevent algae build-up on structures and in harbour infrastructure (jetties, mooring posts etc.) and open harbour waters

1. **Subsea Infrastructure**

Wire positioned along or inside subsea pipelines, cables and other assets to prevent formation of algae and associated crustaceans.

* Oil & Gas
* Telecommunications