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Licensing Opportunity (Patent Application No. GB1914573.9)

## Ferromagnetic Object Retrieval D1742

### Overview

*Magnetic fishing is a well-known phenomenon, whereby a magnet, quite possibly a very strong magnet, attached to a rope or tether can be plunged into a body of water to retrieve ferromagnetic objects that are present in that body of water. It is a known problem that often the magnet may attach to large immovable objects, and as a result of the strength of the magnetic attraction cannot be detached, with the magnet often not being retrievable.*

*This new apparatus is for retrieving ferromagnetic objects from bodies of water, such as rivers and lakes. The apparatus provides for an improvement over devices already in existence. In one embodiment of the apparatus a magnet is housed within a non-magnetic container and connected to a pulley system. The pulley system permits the magnet to be moved between two positions, thereby allowing the magnet to be detached from the object.*

### ▪ Key Benefits

The apparatus permits easy detachment of ferromagnetic objects from the magnet, especially when the magnet has attached to large immovable objects. The ability to move the magnet between two positions, through use of the pulley system, enables the magnet to be distanced/separated from the retrieved object in situ, thereby reducing the strength/magnitude of the magnetic force/attraction between the object and the magnet, so that the object can be detached, or be more easily detached, from the apparatus/magnet.

### ▪ Applications

Magnetic fishing for hobbyists  
Retrieval of objects of forensic interest from bodies of water

### ▪ IP Status

GB patent application is in order for grant.

### ▪ Commercial Opportunity

Two key markets potentially exist, the professional and the amateur:

The professional market may include law enforcement retrieving objects such as knives from bodies of water including lakes and ponds, or specialist construction teams.

The amateur market may be individuals participating in magnet fishing as a pastime or hobby, which is the searching in outdoor waters for ferromagnetic objects. The magnets used tend to strong neodymium magnets capable of removing large debris such as discarded bicycles, guns, safes, bombs, coins and car tire rims from bodies of water, but many who engage in the hobby are hoping to find rare and valuable items as well.