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**Horia Hulubei National Institute for
R&D in Physics and Nuclear
Engineering**

**Process for obtaining substances and
devices used for safe manipulation of
hazardous materials and other
polluting substances.**

Patent Number: RO126118/27.01.2009

Abstract

The patent refers to a process of obtaining a substances used for manipulating hazardous materials and a process of manufacturing devices containing these substances.

The category of hazardous materials includes crude oil and derivatives as gasoline, diesel fuel, naphtha (black oil) and lubricants.

The patented substances are used either as a powder mixed with recycling materials (polyurethane or polypropylene wastes), straws and even sand or clay powder, or filling textile pillowcases or rolls (able to be connected together through latch hooks) for absorbing the hazardous materials from gas stations' floors, roads, or floating on rivers, sea waters etc.

Technology stage

The product was tested and the technology is proved on a small scale manufacturing. The patent is ready for licensing.



Applications

- Environment protection.
- Management of hazardous materials.
- Water depolluting of accidental oil products spill or slick.
- Fire prevention on gas station operation.
- Anti-flood protection using the hydrophilic properties of the substances.

Advantages

- Cheap and economic manufacturing process
- Use of recycling materials.
- Environmental friendly products.
- Wide range of applications and ready to use products

Contact

Dan D. Enache
Tel: 0040214042303
Fax: 0040214574210
Email: dan.enache@nipne.ro