

Magneto-vacuum tank lining protection system MVTL

MVTL is revolution conception of tank protection.

MVTL designed for oil, chemicals and fresh potable water containment.

MVTL allow provide fast and low cost corrosion and leak protection of single-wall tank.

Undetected releases of hazardous substances from hydrocarbons and chemical containment tanks may pose a serious threat to human health and environment, and inevitably lead to expensive cleanups.

For this reason, most countries currently require that have a leakage protection system at the hull (bottom) of the tank to capture any releases before they enter the environment. Single-walled tanks must be either replaced with tanks that have double-walled hull (bottoms), or retrofitted with a second hull (bottom).

MVTL is a patent pended (RU 2009119526) Magnetic Flexible Tank Lining system proposed for corrosion and leakage protection hull (bottom) of tanks and installed into existing or new storage tanks above or below ground. MVTL is tailor made to customer requirements.

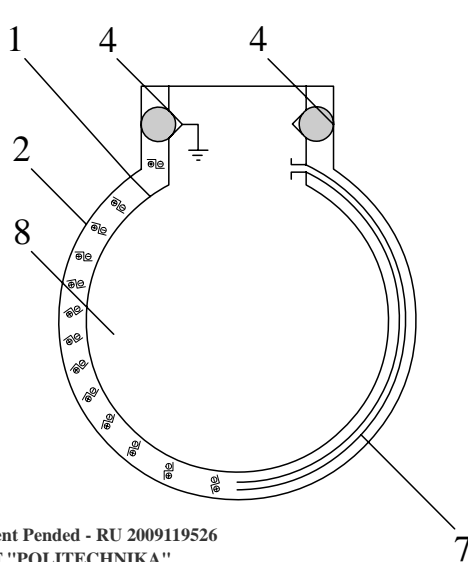
With vacuum control pipe type magnetic liner is hermetic fixing around the wall of tank, fittings and (or) manhole (see scheme below).

Unlike standard vacuum flexible lining, MVTL is not required expensive permanent vacuuming systems for fix non magnetic liner on the wall of tank.

Systems include a polymer magnetic liner which fixing at the metal surface of tank by themselves permanent magnetic forces and integrate with inner pipe with outer connector (valve) for temporary monitoring hermetic condition of tank hull and magnetic liner.

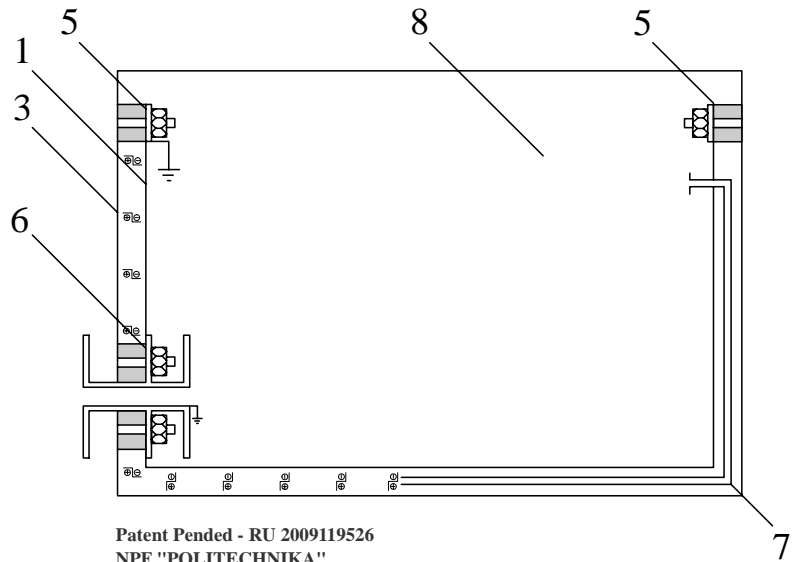
Portable vacuum leak detection system with vacuum pump and vacuum detector allow inspecting interstitial space and integrity of tank and liner walls time to time, for example ones a year.

Scheme of magneto-vacuum tank lining system



Patent Pended - RU 2009119526
NPF "POLITECHNIKA"

(a) Horizontal Reservoir



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(b) Vertical Reservoir

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| <ol style="list-style-type: none"> 1. Magneto-vacuum liner; 2. Hull of horizontal tank; 3. Hull of vertical tank; 4. Fastening ring for manhole; | <ol style="list-style-type: none"> 5. Fastening system around the wall of tank; 6. Fastening system around the fitting of tank; 7. Controlling vacuum pipe; 8. Inner working space. |
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