

15-2010-2488 | General Method for the Entrapment of Organic Bioactive Agents in a Metal Matrix
[Avnir David](#), HUJI, Faculty of Science, The Institute of Chemistry

Our Innovation

- Device for disinfecting re-circulating water system utilizing new biocidal silver composite, Using a new materials-technology which enables the entrapment of organic biocidal compounds within biocidal silver, resulting in a powerful antibacterial composite: *SilverPlus*.
- The new silver composites are more effective than silver alone and their material properties make them particularly suitable for the use in the disinfection of closed loop re-circulating water systems and for potable water in emergencies.

Applications

- Applications in industrial water systems (hot and cold), hot water systems for institutional buildings, swimming pools, Aquaculture

Key Features

- New antibacterial compositions based on common active substances
- Controlled release of the organic biocidal agents which are entrapped in silver
- Synergetic microbiocidal activity
- Reduced environmental fingerprints and burdens
- Residual disinfection capabilities in the treated water systems

Development Milestones

- Seeking industry cooperation for commercialization and funding for ongoing research and development

Patent Status

Granted US [9,289,402](#)

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