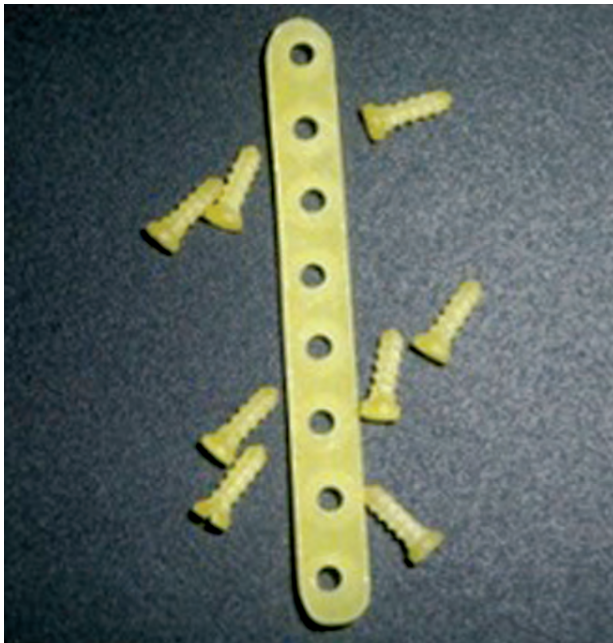


## STRUCTURAL PARTS FOR OSTEOSYNTHESIS



### Areas of Application

The structural parts are designed for quick connection of matched bone fragments and their strong fastening during reconstruction works in jaw-facial surgery, traumatology, and orthopedics surgery

### Specification

The structural parts in the form of bone plates are made of nanostructured composite materials based on epoxy-polyurethane that contains filler and medicinal drug. They have local therapeutic effect as result of sustained release of medicinal drug over an extended period of time and are biodegradable implants.

Tensile strength, MPa	$28.0 \pm 2.8$
Elongation, %	$5.0 \pm 0.5$

### Advantages

As compared with similar foreign and domestic medical products, the structural parts have a lower cost and improved performance characteristics, enable to avoid a repeat surgery and to reduce the risk of complications in postoperative period, provide a prolonged drug action

### Stage of Development.

#### Suggestion for Commercialization

IRL3, TRL3

Manufacture and supply of customized products, upon request

### IPR Protection

IPR3

### Contact Information

*Natalya A. Galatenko*, Institute of Macromolecular Chemistry of the NAS of Ukraine;  
+38 044 296 70 31, e-mail: [politoks@merlin.net.ua](mailto:politoks@merlin.net.ua)