Technology Overview

The technologies on offer from Brainlab AG are in the area of optical tracking systems in particular:

- An optical tracking system, which has a light scattering effect generating device. This light scattering effect generating device is forms the basis of a method for a sub-pixel position determination of images by the optical tracking device.
- The offer also includes novel positional marker system that includes light emitting or reflecting markers, which can be detected by an optical tracking system.
- A method of verifying the calibration of a tracking system using laser target marker device with novel retro-reflector markers.

Potential Application Areas

Optical tracking systems have found use in a variety of settings. The technology disclosed in the patents can offer benefits to 3D optical tracking systems in:

- Motion capture for media and entertainment
- Image guided surgery
- Metrology

Competitive Advantages of the Technology

Research and development at Brainlab has been focussed on finding innovative solutions for optical tracking systems. In particular these patents offer:

- More accurate position determination to a sub-pixel level.
Position Determination and Calibration in optical tracking systems

- Point light source positional markers that are smaller in dimension than current markers.
- Cost effective and less calibration of tracking systems.

Business Model

Regarding the utilization of the present technology the following agreement options are to be considered:

- Licensing of the IP portfolio
- Portfolio Acquisition

Patent Portfolio

<table>
<thead>
<tr>
<th>Title</th>
<th>Publication Number</th>
<th>Priority Date</th>
<th>Granted in</th>
<th>Pending in</th>
<th>Assignee</th>
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<td>Tracking system with scattering effect utilisation</td>
<td>EP1645228</td>
<td>5 October 2004</td>
<td>US, EP</td>
<td></td>
<td>Brainlab AG</td>
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Contact

Florenus AG
Buendam Yildiz
Kurfuerstendamm 136
10711 Berlin
Germany
Email: buendam.yildiz@florenus.com
Phone: +49 (0) 30 887 11 55 17

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