

## CLAIMS

1. Method for limiting the deflection of the laser head during temperature changes, **characterized in that** the temperature difference between the upper wall and the lower wall of the laser head is reduced by metal plate parts with high thermal conductivity attached by a thermally conductive joint to the side walls connecting the upper wall and the lower wall of the laser head.
2. Method for limiting the deflection of the laser head during temperature changes according to claim 1, **characterized in that** the upper wall of the laser head is the warmest and the lower wall of the laser head is the coldest.
3. Method for limiting the deflection of the laser head during temperature changes according to claim 1, **characterized in that** the upper wall of the laser head is the coldest and the lower wall of the laser head is the warmest.
4. Method for limiting the deflection of the laser head during temperature changes according to claim 1, **characterized in that** metal plate parts (4) with a low specific weight are attached by a thermally conductive joint to the side walls (1) connecting the upper wall (2) and the lower wall (3) of the laser head.
5. A laser head with limited deflection during temperature changes consisting of an upper wall and side walls with bushings, a lower wall, a front wall and a rear wall with elements of an optical resonator, **characterized in that** metal plate parts (4) with high thermal conductivity are attached by a thermally conductive joint to the side walls (1) connecting the warmest / coldest upper wall (2) and the coldest / warmest lower wall (3) of the laser head.
6. A laser head with limited deflection during temperature changes according to claim 5, **characterized in that** the metal plate parts (4) have a low specific weight.