Abstract

The invention relates to a fiber assembly (1) for transmitting laser beams (L) for a fiber laser of a laser weapon, the fiber assembly comprising at least one first fiber section (3), in particular a first fiber, and at least one second fiber section (5), in particular a second fiber, wherein: the fiber sections (3, 5) are each designed as optical waveguides; the first fiber section (3) is optically connected, in particular spliced, to the second fiber section (5) for transmitting laser beams (L); the first fiber section (3) has an in particular first doped fiber core (11), has a first fiber sheath (12) encompassing the fiber core (11) and comprising a first cladding (13), and is designed and configured to generate laser radiation (L) in the first fiber core (11) by means of coupled-in pump radiation (P) from a pump radiation source (25) and to transfer said laser radiation into the second fiber section (5); the second fiber section (5) is designed and configured to guide laser radiation (L) along a longitudinal extent of the second fiber section (5); and the second fiber section (5), at least at its end (9) facing away from the first fiber section (3), has a smaller diameter than the first fiber section (3).

(Fig. 1)