CLAIMS:

1. A bolt with an external thread and a cylindrical bolt shank of allogeneic, cortical bone material for surgically operative osteosynthesis, wherein the external thread is a symmetrical angular or trapezoidal thread, with the flank of a thread turn facing the screw-in direction having the same angle as its remote flank, which has at least one thread turn per millimeter, and the bone material is formed by osteons (5) and is permeated by Haversian canals (6), **characterized in that** the thread flanks (9a, 9b), which delimit a thread groove, of the symmetrical angular or trapezoidal thread converge into each other via a thread root portion (8), whose length, in an axial section of the bolt, lies in the range of 0.02 mm to 0.6 mm, and wherein the thread root portion (8) is formed by a circular arc with a thread root radius of 0.01 mm to 0.20 mm.

2. The bolt with an external thread according to claim 1, **characterized in that** the transition of the thread flanks (9a, 9b) into the thread root portion (8) is arcuate.

3. The bolt with external thread according to claim 1, **characterized in that** the thread root portion (8) is formed by a circular arc with a thread root radius of 0.08 mm to 0.20 mm.

4. The bolt with an external thread according to claim 2, **characterized in that** the thread root portion (8) is formed by a circular arc with a thread root radius of 0.08 mm to 0.20.

5. The bolt with an external thread according to claim 3, wherein the thread root radius is 0.12 mm.

6. The bolt with an external thread according to claim 4, wherein the thread root radius is 0.12 mm.