CLAIMS:

1. An implant arranged for integration into a skeletal bone of a patient, comprising:

a body and at least one end, the body being arranged to sit within a passageway formed within the bone and substantially mimic a portion of a skeletal bone;

wherein the at least one end includes an enlarged portion arranged to, in use, prevent migration of the implant into the skeletal bone of a patient; and

wherein the enlarged portion is arranged to sit within a recess formed in an end of the skeletal bone;

wherein the recess is connected to the passageway and is of a larger diameter of the passageway; and

wherein the at least one end including the enlarged portion is arranged so that the end is flush with the end of the skeletal bone.

2. An implant in accordance with Claim 1, wherein the width of the enlarged portion is narrower than the width of the skeletal bone so that the enlarged portion sits entirely within the recess formed in an end of the skeletal bone.

3. An implant in accordance with Claims 1 or 2, wherein the enlarge portion is flared away from the body.

4. An implant in accordance with any one of the preceding claims, wherein the body includes a coating arranged to assist osseointegration of the implant into the existing skeletal bone.

5. An implant in accordance with Claim 4, wherein the coating includes a porous structure arranged to assist osseointegration of the implant into the existing skeletal bone.

6. An implant in accordance with Claim 5, wherein the porous structure is formed from titanium.

7. An implant in accordance with Claim 6, wherein the porous structure is formed by a plasma deposition process.

8. An implant in accordance with any one of the preceding claims, wherein the implant is sized to be integrated into a human femoral bone.

9. An implant in accordance with any one of Claims 1 to 8, wherein the body of the implant has a curved shape, arranged to mimic the curve of a human femoral bone.

10. An implant in accordance with any one of Claims 1 to 7, wherein the implant is sized to be integrated into a portion of a human tibial bone.

11. An implant in accordance with any one of Claims 1 to 7, wherein the body of the implant has a curved shape, arranged to mimic the curve of a human tibial bone.

12. An implant in accordance with any one of Claims 1 to 11, wherein the body of the implant further includes at least one projection which extends along a portion of the body, wherein the projection is arranged to, in use, prevent rotation of the implant relative to the skeletal bone.

13. An implant in accordance with Claim 12, wherein the projection is at least one spline.

14. An implant in accordance with Claim 13, wherein the at least one spline extends longitudinally along the body of the implant.

15. An implant in accordance with any one of Claims 12, 13 or 14, including a plurality of splines, wherein a recessed channel is located between adjacent splines.

16. An implant in accordance with any one of Claims 1 to 15, further including a second end, wherein the second end is tapered.

17. An implant in accordance with any one of Claims 1 to 16, wherein a portion of the at least one end is coated with a physiologically inert substance.

18. An implant in accordance with Claim 17, wherein the physiologically inert substance is niobium.

19. An implant in accordance with any one of preceding claims, further including a coupling part located at the at least one end of the implant.

20. An implant in accordance with Claim 13, wherein the coupling part includes a threaded portion arranged to receive a corresponding coupling portion on a prosthetic device.