5. The biomechanical ankle of claim 1 wherein said sole plate is fixed to a base member embedded in said artificial foot.

6. The biomechanical ankle of claim 5 wherein said sole plate and support plate are substantially rectangular and elongated along the longitudinal axis of the foot, said supporting plate having a length that is less than the length of said sole plate.

7. The biomechanical ankle of claim 1 wherein said upright post is positioned for placement 3–7 mm posterior to the trochanter-knee-ankle line of said amputee.

8. A biomechanical ankle for use in an artificial foot adapted for attachment to an amputee, said ankle comprising:

a substantially flat rectangular sole plate elongated along the longitudinal axis of the foot and adapted for attachment to an elongated plate embedded in said artificial foot;

a substantially flat rectangular limb supporting plate elongated along the longitudinal axis of the foot and held in spaced, substantially parallel relationship to said sole plate by an upright post that is positioned for placement substantially colinearly with the trochanter-knee-ankle line of said amputee, said post and limb supporting plate being coupled with a universal joint;

a helical coil anterior to said post and disposed in fixed engagement between said sole plate and limb supporting plates, the inferior edge of the coil being fixed to said sole plate and the superior edge of the coil being fixed to said supporting plate, the longitudinal axis of said coil being offset from the vertical plane by 5 degrees–10 degrees, the superior edge of said spring inclining toward the midline of said amputee's body; and

a screw threaded stud with an enlarged head for attaching the artificial foot and ankle to the amputee, said head being disposed in sliding engagement within an elongated longitudinal slot in said support plate, the diameter of said head being greater than the width of said slot, said stud extending upwardly from the surface of said supporting plate.

9. The biomechanical ankle of claim 8 wherein said upright post is positioned 3–7 millimeters posterior to the trochanter-knee-ankle line of said amputee.

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