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- (54) **HIGH HEEL SHOE**
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(57) **ABSTRACT**

There are disclosed high heel shoes where separate components combine to create load balancing internal footwear technology. A two-piece system includes interlocking toe bed and shank constructed of complex three dimensional curved surfaces which create an intricately sculpted volume to provide structural support down the length of the entire foot. The toe bed provides a wide base and keeps the big toe pointed straight (at an approximately 10° angle). A heel maximizes the surface area of the bottom of the heel at the point of strike with the ground while retaining a minimal and aesthetically appealing silhouette from the side view. The toe bed and shank feature a composition of layered materials which when combined work to provide both stability and shock absorption to the ball of the foot during the foot strike of walking. An internal support structure provides a padded barrier and intermediary between the rigidity of the shank and the softness of the shoe upper.

29 Claims, 7 Drawing Sheets

