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(54) **THREADED BONE TUNNEL DILATOR**

(75) Inventors: **Greg Hicken**, 1285 Cedar Heights, Logan, UT (US) 84341; **Greta Jo Hays**, Logan, UT (US); **T. Wade Fallin**, Hyde Park, UT (US)

(73) Assignee: **Greg Hicken**, Logan, UT (US)

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*Primary Examiner*—Eduardo C. Robert

(74) *Attorney, Agent, or Firm*—Pandiscio & Pandiscio, P.C.

(57) **ABSTRACT**

A cannulated threaded bone tunnel dilator that accurately advances through bone and dilates a bone tunnel in a gentle, controlled manner, including a distal tapered, threaded tip and a body mounted on the distal end of a shaft. The proximal end of the shaft includes a drive attachment for rotating the dilator so as to threadingly advance the dilator. In use, a guidewire is driven into bone, and then the surgeon advances the dilator along the guidewire until the tip of the dilator engages the bone. The surgeon then rotates the dilator clockwise so as to threadingly advance the dilator through the bone until the dilator reaches a desired depth. After reaching the desired depth, the surgeon removes the dilator by rotating the dilator counterclockwise and retracting the dilator from the then-compacted bone tunnel. The peaks and troughs of the dilator's thread compact the bone so as to create the dilated bone tunnel. However, the peaks and troughs do not extend beyond a smooth cylindrical body, thus, following dilation, the resultant bone tunnel is smooth and compacted.

**38 Claims, 4 Drawing Sheets**

