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United States Patent [19]

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Walker et al.

[45] Date of Patent: **May 26, 1998**

[54] **PROSTHESES FOR KNEE REPLACEMENT**

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[76] Inventors: **Peter Stanley Walker**, 13 Pembroke Road, Moor Park, Middlesex HA6 2HP, England; **John Nevil Insall**, 170 E. End Ave., New York, N.Y. 10128

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[21] Appl. No.: **276,850**

[22] Filed: **Jul. 18, 1994**

Primary Examiner—Michael J. Milano
Attorney, Agent, or Firm—McDermott, Will & Emery

[30] Foreign Application Priority Data

Jul. 16, 1993 [GB] United Kingdom 9314832

[57] ABSTRACT

[51] Int. Cl.⁶ **A61F 2/38**

[52] U.S. Cl. **623/20**

[58] Field of Search 623/18, 20

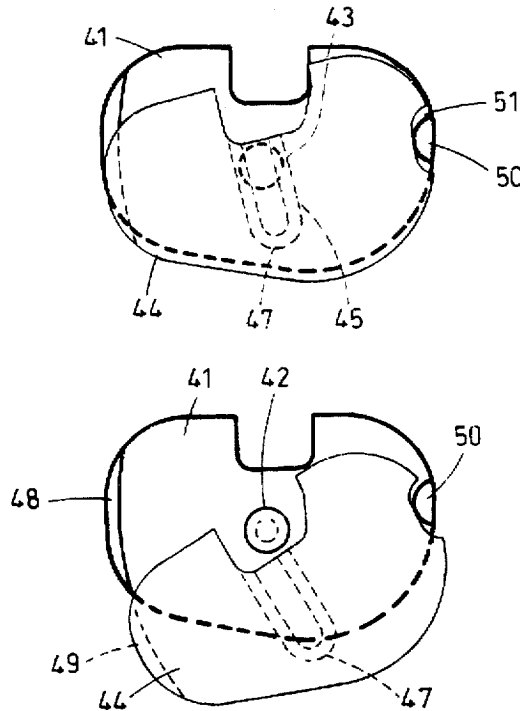
A condylar replacement knee prosthesis has a tibial platform adapted for attachment to a resected tibia, a femoral component adapted for attachment to a resected femur and a plastics meniscal component interposed between the femoral and tibial components. The upper surface of the meniscal component is shaped to correspond with bearing surfaces of the femoral component. The meniscal component is guided for sliding movement in an anterior-posterior direction on the tibial component and for limited rotational movement, the rotational movement being centred about an axis which is displaced medially from the anterior-posterior centre line of the tibial component.

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3 Claims, 4 Drawing Sheets



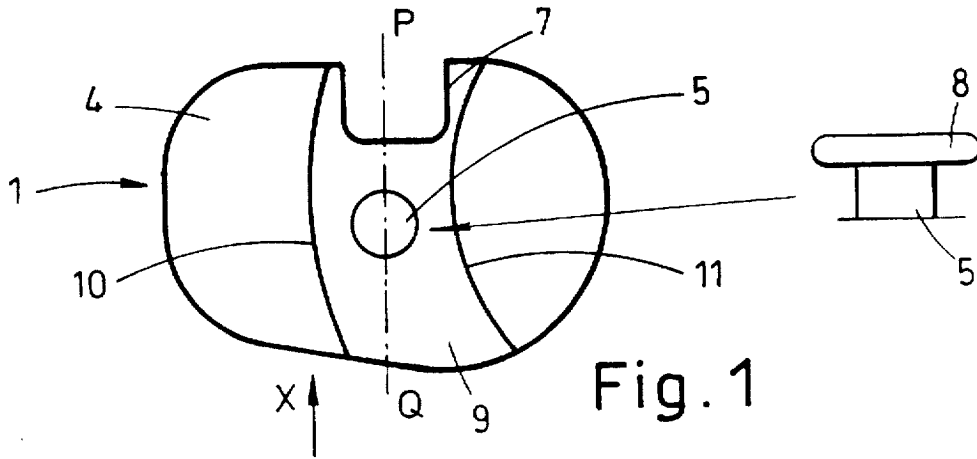


Fig. 1

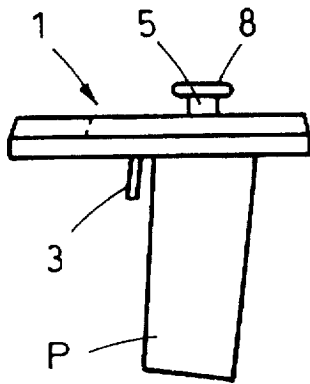


Fig. 1a

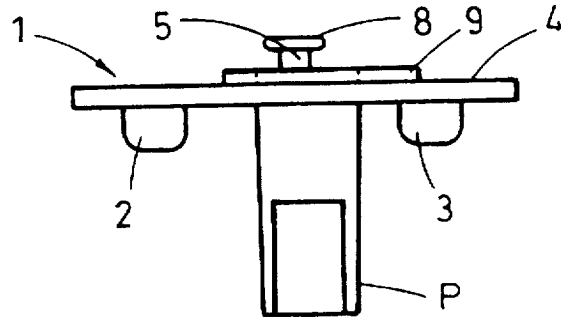


Fig. 1b

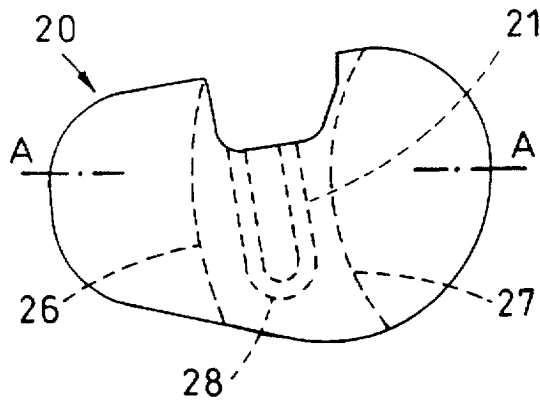


Fig. 1c



Fig. 1d

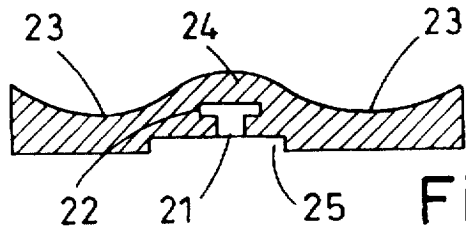


Fig. 1e

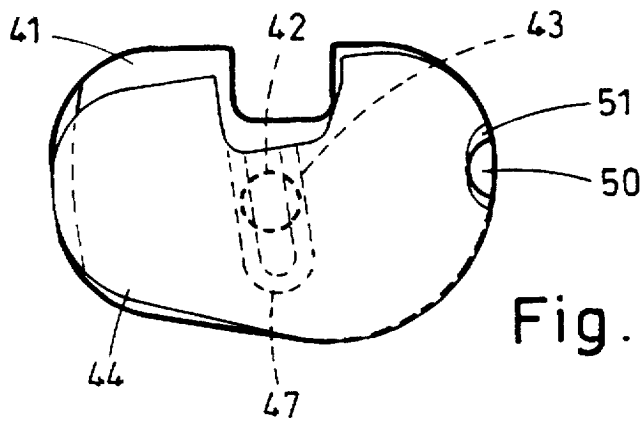


Fig. 2

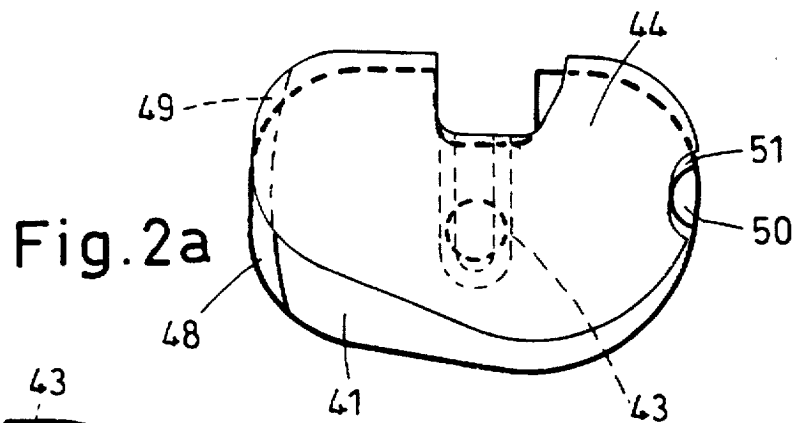


Fig. 2a

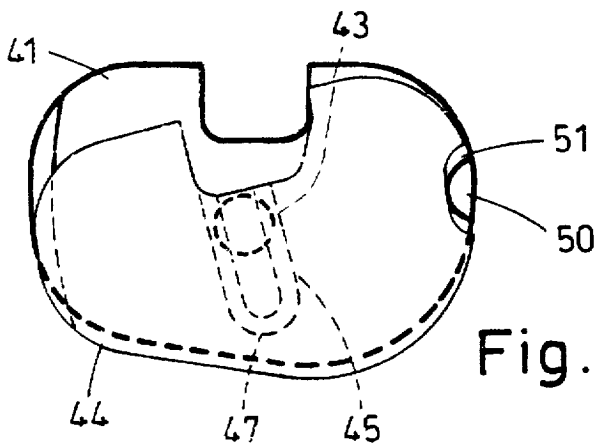


Fig. 2b

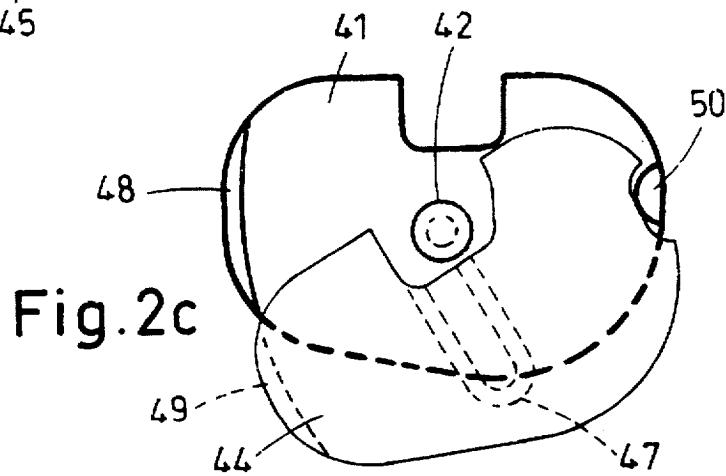


Fig. 2c

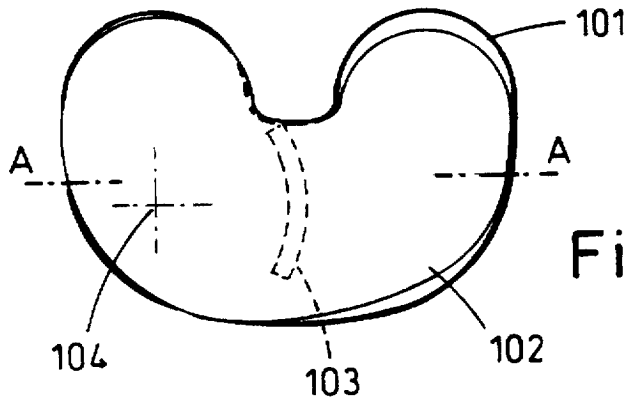


Fig. 3

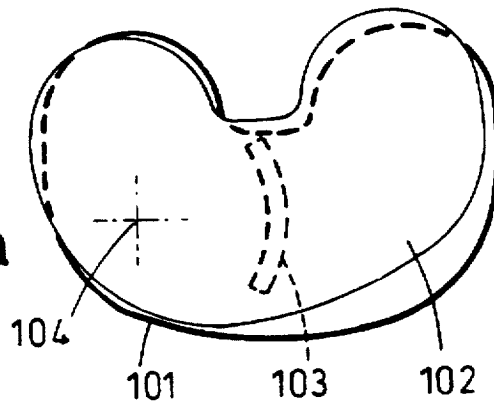


Fig. 3a

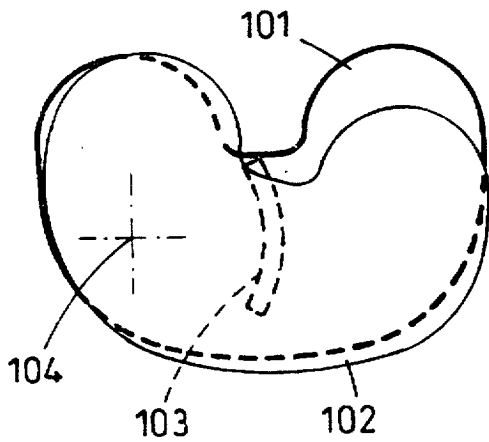


Fig. 3b

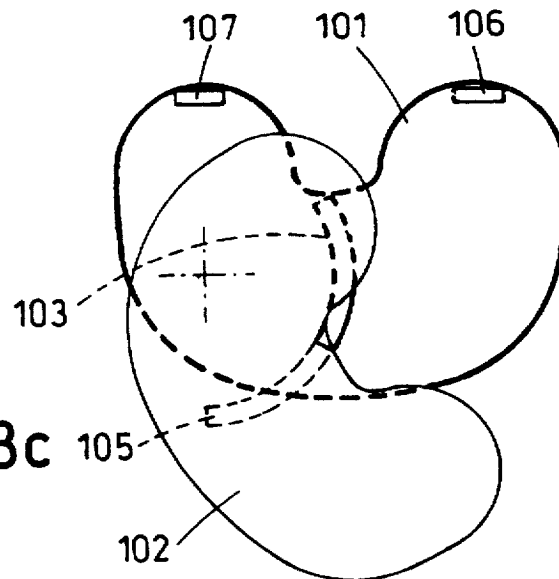


Fig. 3c

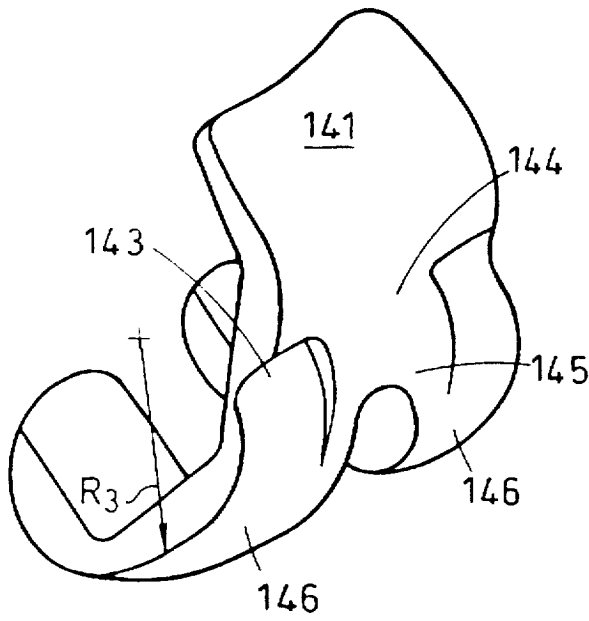


Fig. 4(a)

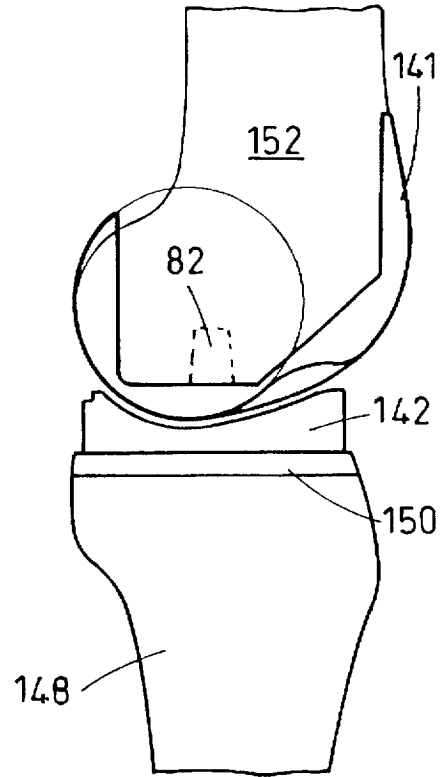


Fig. 4(c)

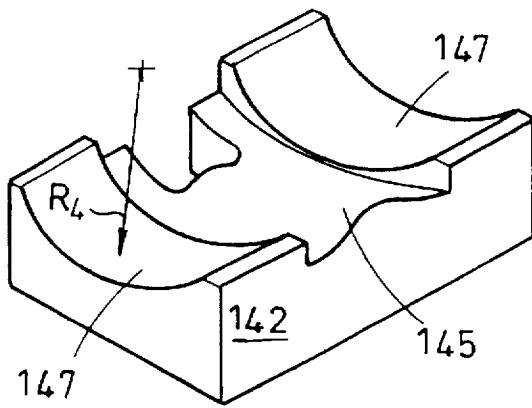


Fig. 4(b)

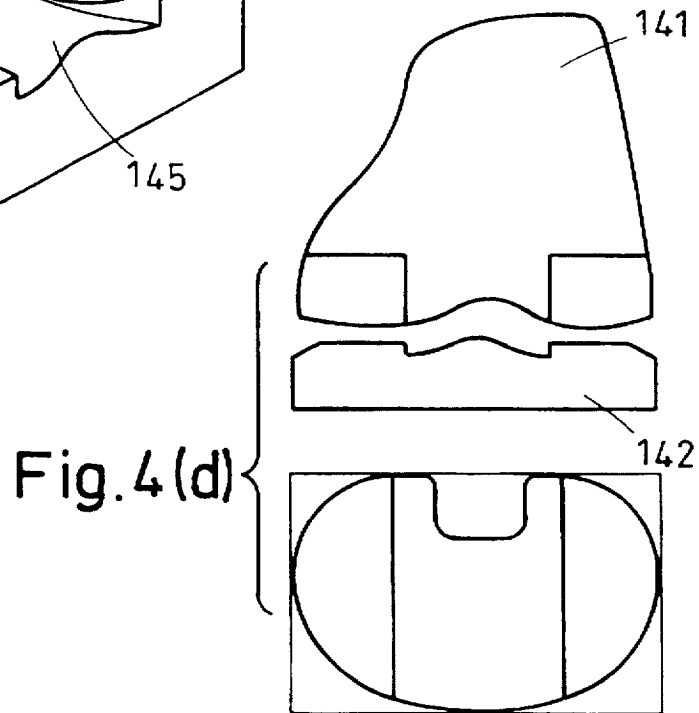


Fig. 4(d)

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