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United States Patent [19]

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Bahler

[45] Date of Patent: Feb. 1, 1994

[54] PROSTHETIC ARRANGEMENT FOR A COMPLEX JOINT, ESPECIALLY KNEE JOINT

FOREIGN PATENT DOCUMENTS

1567007 5/1980 United Kingdom .

[76] Inventor: André Bahler, Kapfsteig 44, CH-8032 Zurich, Switzerland

OTHER PUBLICATIONS

"New Jersey Tricompartmental Total Knee System". "A Manual of the Oxford Knee", published by OEC Orthopaedic Ltd. Bridgend, South Glamorgan, United Kingdom.

[21] Appl. No.: 898,141

[22] Filed: Jun. 15, 1992

Primary Examiner—David Isabella
Attorney, Agent, or Firm—Frishauf, Holtz, Goodman & Woodward

[30] Foreign Application Priority Data

Jun. 17, 1991 [CH] Switzerland 01797/91
Jun. 17, 1991 [CH] Switzerland 01798/91

[57] ABSTRACT

[51] Int. Cl.⁵ A61F 2/38
[52] U.S. Cl. 623/20
[58] Field of Search 623/16, 18, 20

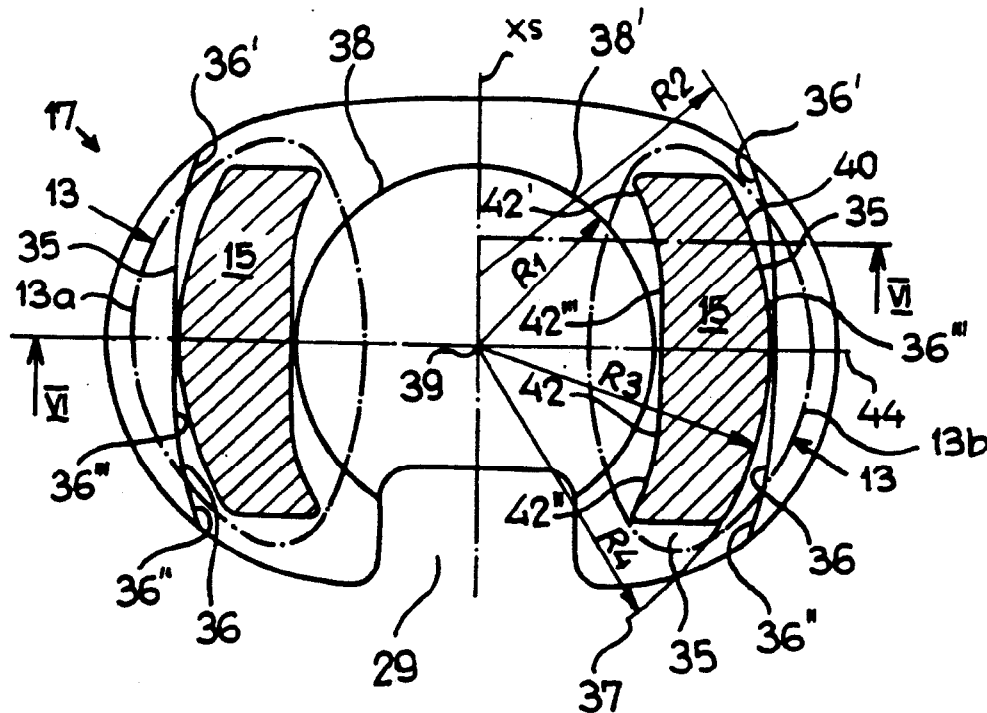
To permit movement of coupling elements (13, 13a, 13b) which carry joint surfaces (21) congruent with condylar portions (19) of the prosthesis, the coupling elements are slidable in guide tracks (35), which are curved, and are widened at their terminal portions. The coupling elements have elongated engagement ribs which fit into the guide track groove, with minimum clearance and play at the narrowest, central portion of the guide groove, while permitting limited twisting as well as sliding movement due to the widened regions of the guide track at its end region. The position of guide track-rib can be reversed, if desired. The elements slide on a slide surface and can be retained, for example by an interlocking connection, such as a dovetail.

[56] References Cited

U.S. PATENT DOCUMENTS

4,085,466	4/1978	Goodfellow et al.	623/20
4,207,627	6/1980	Cloutier	623/20
4,309,778	1/1982	Buechel et al.	623/20
4,340,978	7/1982	Buechel et al.	623/20
4,353,136	10/1982	Polyzoides et al.	623/20
4,470,158	9/1984	Pappas et al.	623/20
4,728,332	3/1988	Albrektsson	623/20
4,950,297	8/1990	Elloy et al.	623/20
5,007,933	4/1991	Sidebotham et al.	623/20
5,011,496	4/1991	Forté et al.	623/20

23 Claims, 16 Drawing Sheets



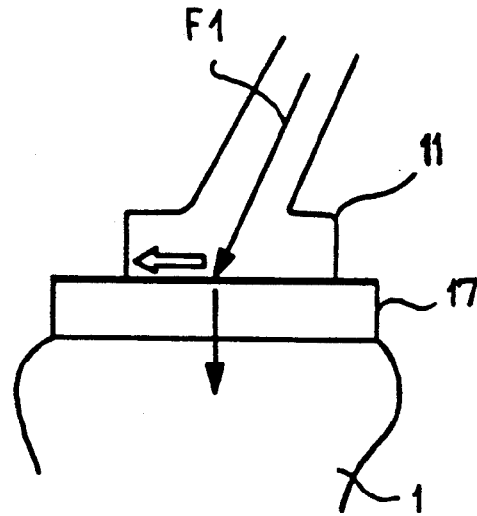


Fig.1

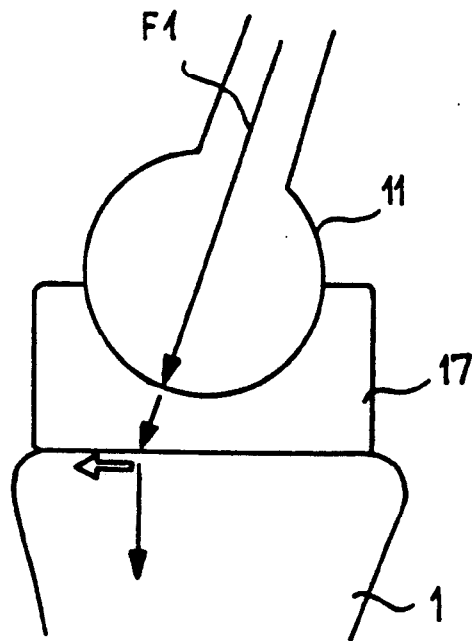
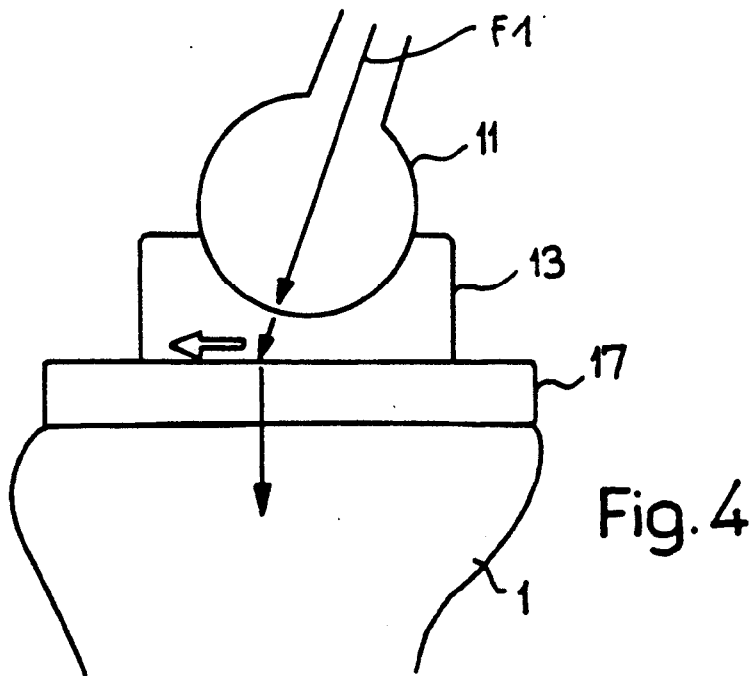
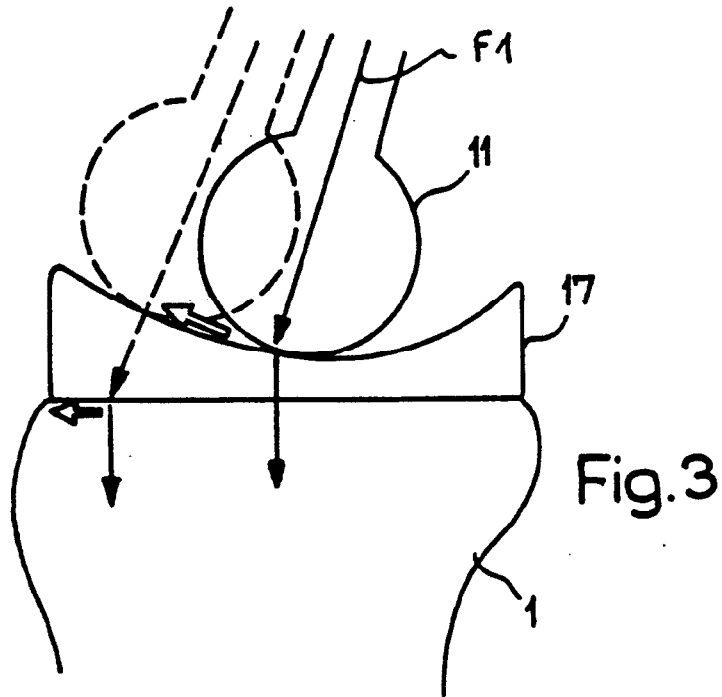


Fig.2



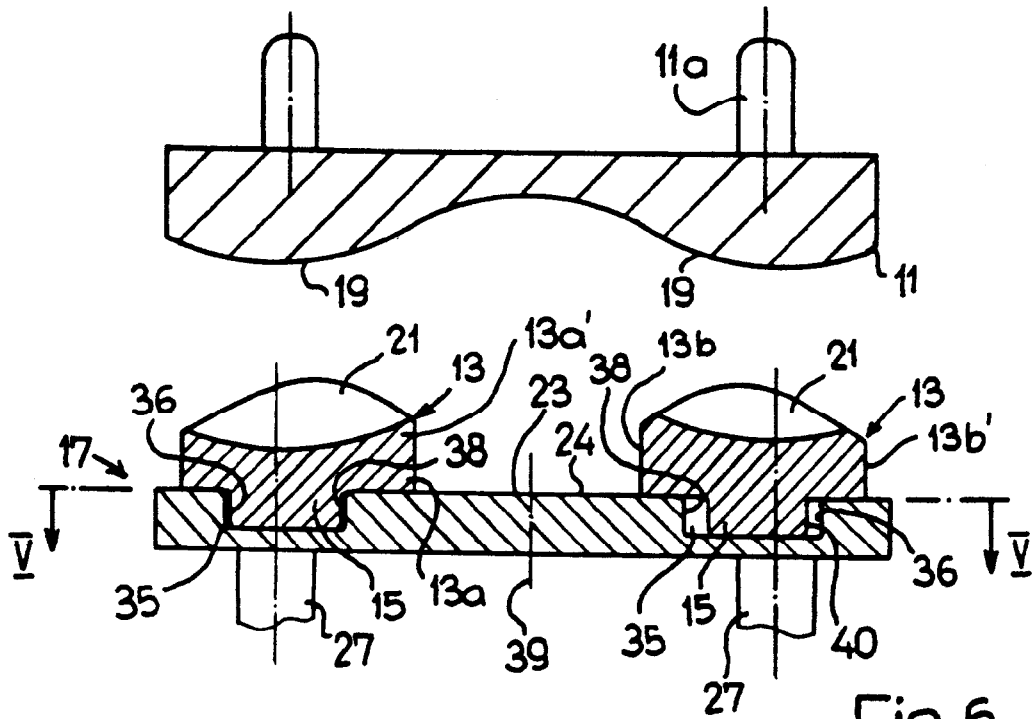


Fig. 6

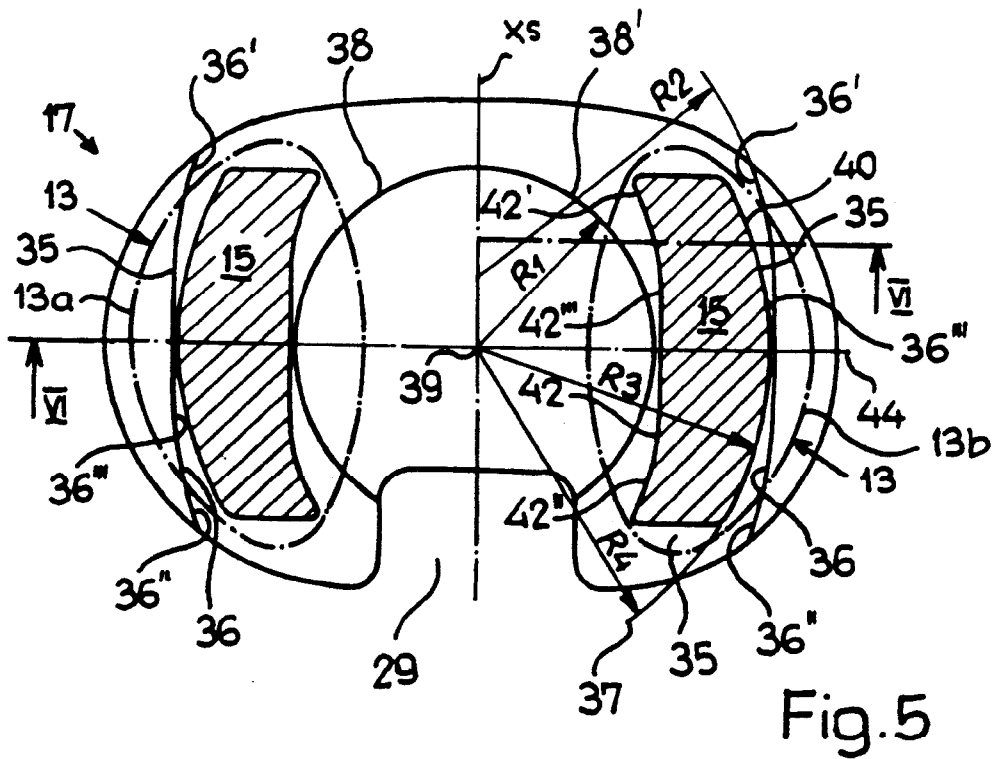


Fig. 5

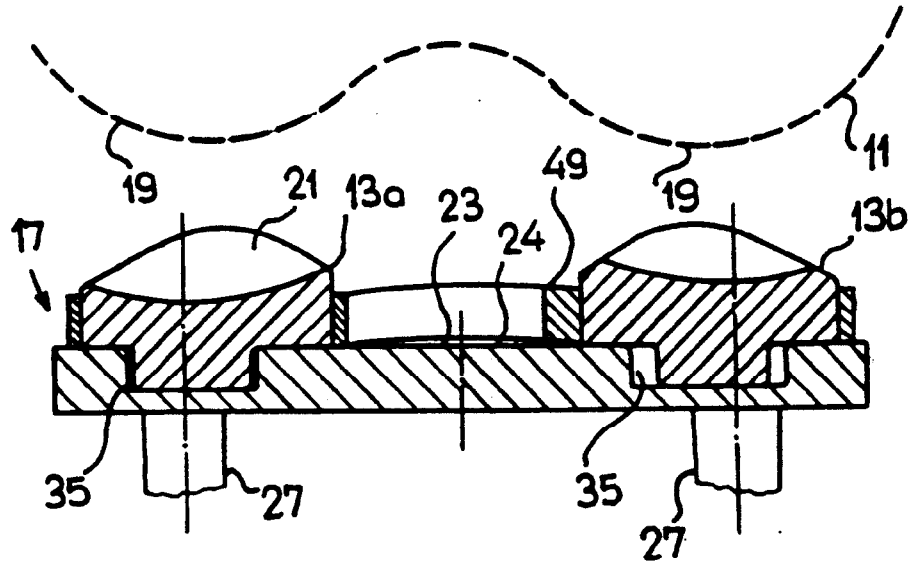


Fig. 6A

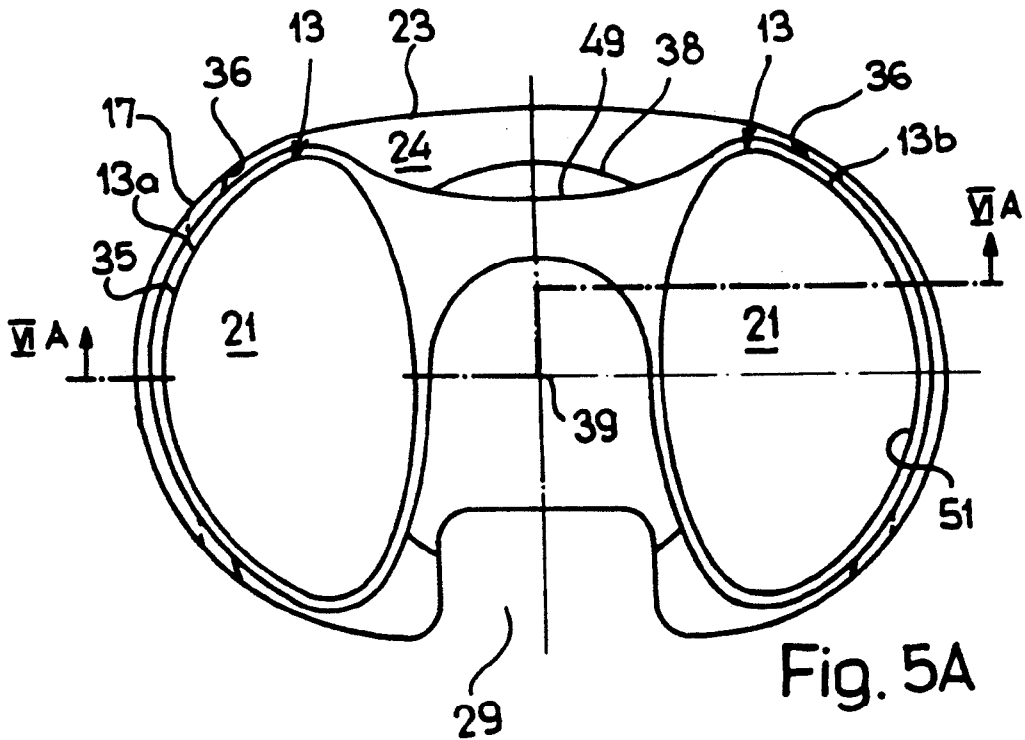


Fig. 5A

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