

(12) **United States Patent**  
**Aram et al.**

(10) **Patent No.:** **US 8,002,840 B2**  
(45) **Date of Patent:** **Aug. 23, 2011**

(54) **SYSTEMS AND METHODS FOR  
COMPARTMENTAL REPLACEMENT IN A  
KNEE**

(75) Inventors: **Luke Aram**, Warsaw, IN (US); **Dan Auger**, Fort Wayne, IN (US); **Adam Hayden**, Fort Wayne, IN (US); **Jordan Lee**, Warsaw, IN (US)

(73) Assignee: **DePuy Products, Inc.**, Warsaw, IN (US)

(\* ) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 1114 days.

3,852,830 A	12/1974	Marmor
3,949,428 A	4/1976	Cavendish et al.
3,953,899 A	5/1976	Charnley
4,001,896 A	1/1977	Arkangel
4,034,418 A	7/1977	Jackson et al.
4,151,615 A	5/1979	Hall
4,178,641 A	12/1979	Grundeil et al.
4,207,627 A	6/1980	Cloutier
4,209,861 A	7/1980	Walker et al.
4,216,549 A	8/1980	Hillberry et al.
4,217,666 A	8/1980	Averill
4,224,696 A	9/1980	Murray et al.
4,309,778 A	1/1982	Buechel et al.
4,340,978 A	7/1982	Buechel et al.
4,457,307 A	7/1984	Stillwell

(Continued)

(21) Appl. No.: **11/170,816**

(22) Filed: **Jun. 30, 2005**

(65) **Prior Publication Data**  
US 2006/0058883 A1 Mar. 16, 2006

**Related U.S. Application Data**  
(63) Continuation-in-part of application No. 11/033,614, filed on Jan. 12, 2005, now Pat. No. 7,258,701.  
(60) Provisional application No. 60/535,967, filed on Jan. 12, 2004.

(51) **Int. Cl.**  
**A61F 2/38** (2006.01)  
(52) **U.S. Cl.** ..... **623/20.15**  
(58) **Field of Classification Search** ..... 623/20.14–20.36  
See application file for complete search history.

(56) **References Cited**  
U.S. PATENT DOCUMENTS  
3,798,679 A 3/1974 Ewald  
3,816,855 A 6/1974 Saleh

FOREIGN PATENT DOCUMENTS  
DE 29 01 009 7/1980  
(Continued)

OTHER PUBLICATIONS  
Richards, KA-012255, Richards Mod II Knee, 1976 (56 pages).  
(Continued)

*Primary Examiner* — Bruce E Snow  
(74) *Attorney, Agent, or Firm* — Maginot, Moore & Beck

(57) **ABSTRACT**  
A prosthesis system includes a first component having an outer surface, an inner surface, a first side and a second side, the first component configured to replace a first portion of a surface of a bone. A second component is configured to replace a second portion of the surface of the bone and a spacer is configured to be located adjacent to the first side of the first component and between the first component and the second component when the first component and the second component replace the first portion and second portion, respectively, of the surface of the bone.

**21 Claims, 30 Drawing Sheets**

