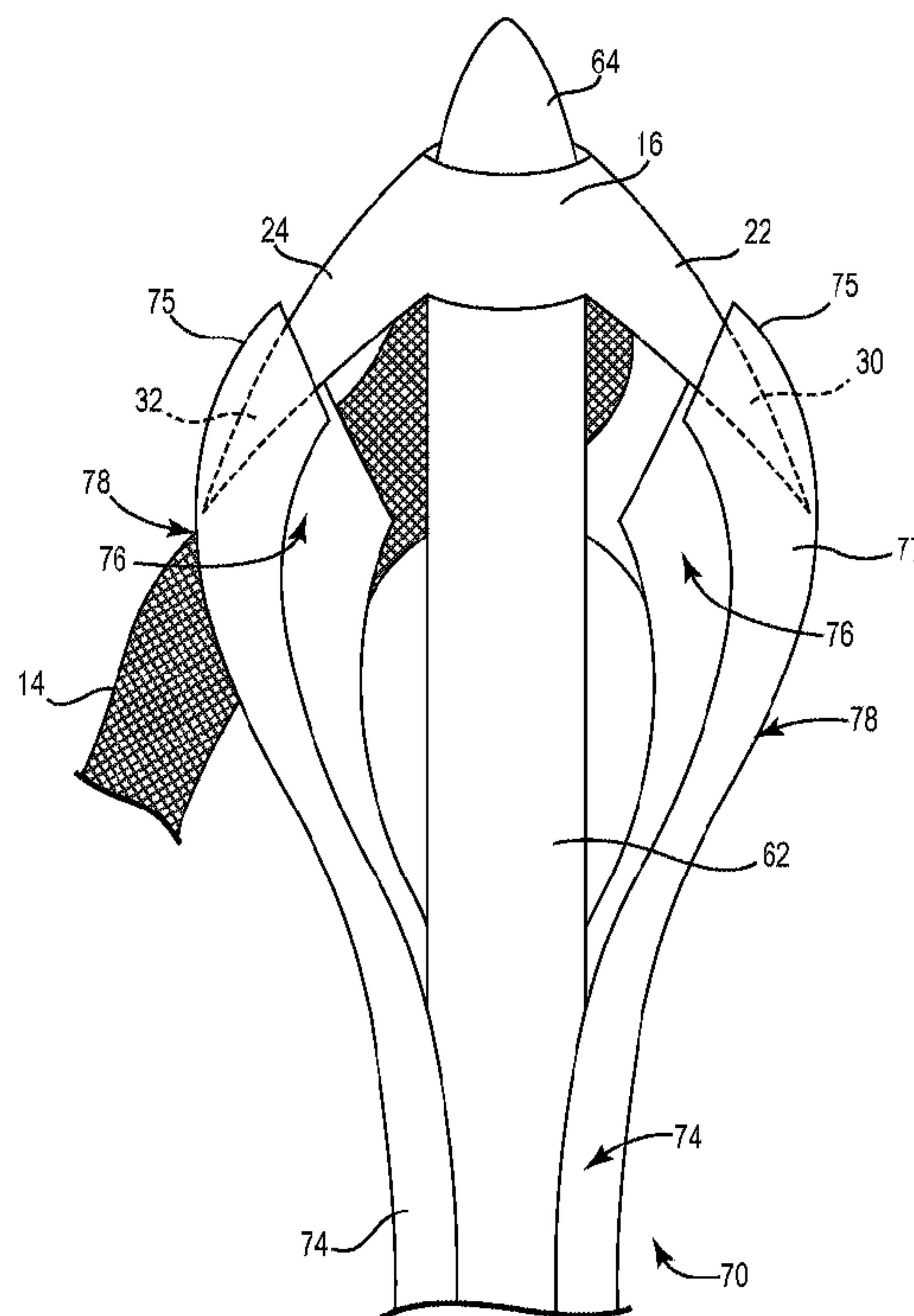




(86) **Date de dépôt PCT/PCT Filing Date:** 2009/08/05
(87) **Date publication PCT/PCT Publication Date:** 2010/02/11
(45) **Date de délivrance/Issue Date:** 2015/12/15
(85) **Entrée phase nationale/National Entry:** 2011/02/04
(86) **N° demande PCT/PCT Application No.:** US 2009/052843
(87) **N° publication PCT/PCT Publication No.:** 2010/017291
(30) **Priorité/Priority:** 2008/08/05 (US61/086,201)

(51) **Cl.Int./Int.Cl. A61F 2/00** (2006.01),
A61F 2/02 (2006.01)
(72) **Inventeur/Inventor:**
CRAWFORD, SCOTT, US
(73) **Propriétaire/Owner:**
AMS RESEARCH CORPORATION, US
(74) **Agent:** DEETH WILLIAMS WALL LLP

(54) **Titre : IMPLANT PELVIEN, ET SYSTEME DE DELIVRANCE**
(54) **Title: PELVIC IMPLANT AND DELIVERY SYSTEM**



(57) **Abrégé/Abstract:**

Described and depicted are pelvic sling implant and delivery systems. The sling implants can be used in treating stress incontinence and other pelvic floor disorders. The sling systems can include a mesh extension or support portion and one or more tip anchors. A delivery tool can include a handle (61), a needle (62) and a sheath (70), with the sheath having an elongate shaft portion slidable along at least a portion of the needle. The sheath can further include a distal hood portion having opposed flared portions (78) defining interior pleat channels adapted to selectively seat tip ends of the anchors.



(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
11 February 2010 (11.02.2010)

PCT

(10) International Publication Number
WO 2010/017291 A1(51) International Patent Classification:
A61F 2/00 (2006.01)(21) International Application Number:
PCT/US2009/052843(22) International Filing Date:
5 August 2009 (05.08.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/086,201 5 August 2008 (05.08.2008) US

(71) Applicant and

(72) Inventor: **CRAWFORD, Scott** [US/US]; c/o Ams Research Corporation, 10700 Bren Road West, Minnetonka, MN 55343 (US).(74) Agent: **KOELLER, Gregory, L.**; AMS Research Corporation, 10700 Bren Road West, Minnetonka, MN 55343 (US).

CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

— of inventorship (Rule 4.17(iv))

Published:

— with international search report (Art. 21(3))

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,

(54) Title: PELVIC IMPLANT AND DELIVERY SYSTEM

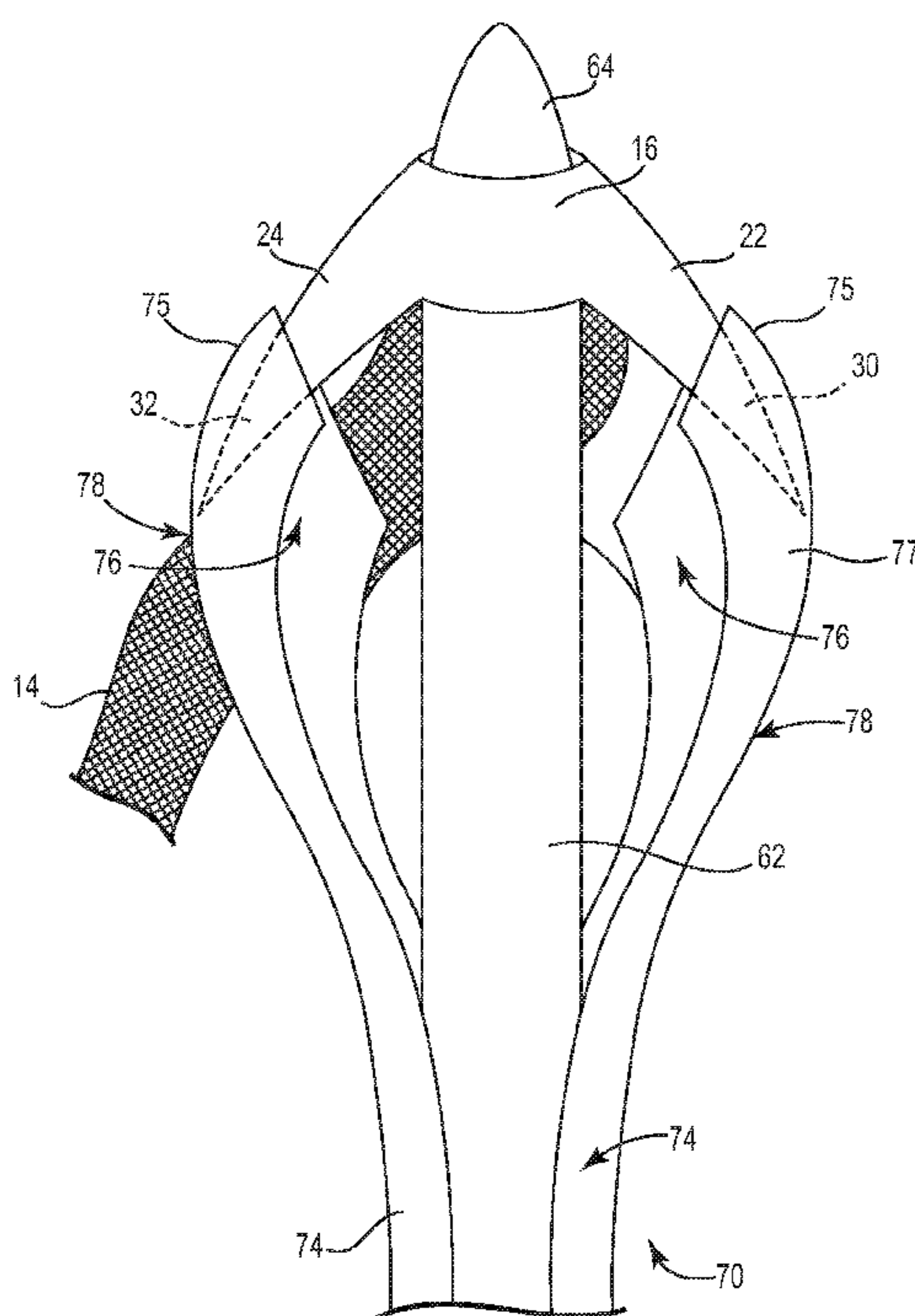


Fig. 2

(57) Abstract: Described and depicted are pelvic sling implant and delivery systems. The sling implants can be used in treating stress incontinence and other pelvic floor disorders. The sling systems can include a mesh extension or support portion and one or more tip anchors. A delivery tool can include a handle (61), a needle (62) and a sheath (70), with the sheath having an elongate shaft portion slidable along at least a portion of the needle. The sheath can further include a distal hood portion having opposed flared portions (78) defining interior pleat channels adapted to selectively seat tine ends of the anchors.

PELVIC IMPLANT AND DELIVERY SYSTEM

FIELD OF THE INVENTION

5 The invention relates to apparatus and methods for treating pelvic conditions by use of a pelvic implant to support pelvic tissue and, more particularly, to a surgical pelvic implant and delivery system for securing and deploying the pelvic implant.

BACKGROUND OF THE INVENTION

10 Pelvic health for men and women is a medical area of increasing importance, at least in part due to an aging population. Examples of common pelvic ailments include incontinence (fecal and urinary) and pelvic tissue prolapse (e.g., female vaginal prolapse). Urinary incontinence can further be classified
15 as including different types, such as stress urinary incontinence (SUI), urge urinary incontinence, mixed urinary incontinence, among others. Other pelvic floor disorders include cystocele, rectocele, enterocele, and prolapse such as anal, uterine and vaginal vault prolapse. A cystocele is a hernia of the bladder, usually into the vagina and introitus.

