

ALVARADO KNEE HOLDER

U.S. Patent 4,136,858

DESCRIPTION

This device is designed to hold the patient's knee in the selected position during surgery. The aluminum and stainless steel *Alvarado* Knee Holder includes an aluminum base plate assembly with two rows of slotted hooks. These rows extend upward from the base plate for a sufficient length to provide adequate selective adjustment. A radiolucent anodized aluminum splint assembly (the knee holder) is mounted on an alignment rod that is pivotally engaged into the hook portion of the slots.

The engagement between the distal pins of the alignment rod and the hook at the top of the slot provides lateral stability for the splint assembly for quick and convenient detachment. The device permits adjusting the degree of rotation and ready access to the knee. Two support assemblies (right or left) are available to serve as anchoring brackets for clamping to the operating table rails. A horizontal bar on the support assembly forms a ledge to secure the base plate.

INDICATIONS AND USAGE

The *Alvarado* Knee Holder is indicated for any type of knee surgery that requires knee stabilization. It is especially useful for heavy or large patients, in total knee arthroplasty, or for medial and lateral meniscectomies.

CONTRAINDICATIONS

Contractures of the soft tissues or fusion of the knee or both are the only contraindications. Either condition will not allow proper knee flexion. Where there is significant contracture, forced flexion into the maximum position may avulse the tibial tubercle if care is not taken to release the contractures about the knee during the surgical procedure.

WARNING

The patient must be positioned properly on the operation table. If positioned too far up on the table, the edge of the patient's buttocks will not stabilize the base plate, and the base plate will be loose during the procedure.

UTILIZATION

Drape the table in the usual manner, placing the bar assembly on the operative side (either left or right) beneath the sterile drape. A stabilizing plate (the size of the base plate) can also be used under the drape on the operative side to help secure the base plate. The patient is placed on his back on the operating table and the appropriate leg is prepped and draped. Position the base plate under the leg and the edge of the buttocks to permit all of the rail slots to be used for different degrees of flexion. Cushion the splint assembly with suitable padding. Place the leg on the splint assembly as depicted. Secure the base plate under the bar on the appropriate support assembly (either left or right) and engage the vertical bar into the side rail of the operating room table. Elastic bandages may be used to bind the leg to the splint assembly. The splint assembly (knee holder) can be readily moved and adjusted into various selected positions or removed from the base plate for straightening the leg or knee during surgery. If the surgeon prefers, the knee holder can be used by dropping the end of the table to permit direct rather than the lateral view. In this case, padding will be required for the popliteal area of the unsupported "free" leg.

CLEANING AND STERILIZATION

The *Alvarado* Knee Holder is cleaned following recommended hospital procedures for aluminum devices. As soon as possible after the surgical procedure, the knee holder should be rinsed in cold water to remove blood and saline solutions. Impacted material should be scrubbed out; however, steel wool or abrasive soap cleaners should not be used as they scratch the surface finish of the device.

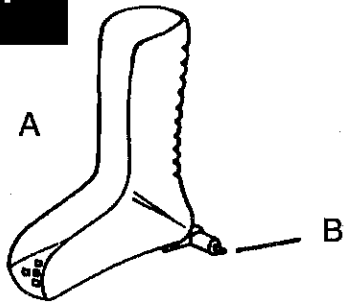
The splint assembly and base plate assembly must be sterilized prior to surgical use. Steam autoclaving is recommended.

HOW SUPPLIED

REF
1320 *Alvarado* Knee Holder

Includes:

- 1320-10 Splint Assembly
- 1320-11 Base Plate Assembly
- 1320-12 Knee Support Assembly, Right Foot
- 1320-13 Knee Support Assembly, Left Foot
- 1320-14 Stabilizing Plate

1**ENGLISH**

- A. SPLINT ASSEMBLY
- B. ALIGNMENT ROD

DANSK

- A. SKINNEMONTERING
- B. OPRETNINGSSTAV

NEDERLANDS

- A. SPALKCONSTRUCTIE
- B. STELSTAAF

FRANÇAIS

- A. ATTELLE
- B. TIGE D'ALIGNEMENT

DEUTSCH

- A. SCHIENENVORRICHTUNG
- B. AUSRICHTESTAB

ΕΛΛΗΝΙΚΑ

- A. ΣΥΓΚΡΟΤΗΜΑ ΝΑΡΘΗΚΑ
- B. ΡΑΒΔΟΣ ΕΥΘΥΓΡΑΜΜΙΣΗΣ

ITALIANO

- A. STIVALE
- B. BARRA DI ALLINEAMENTO

PORTUGUÊSE

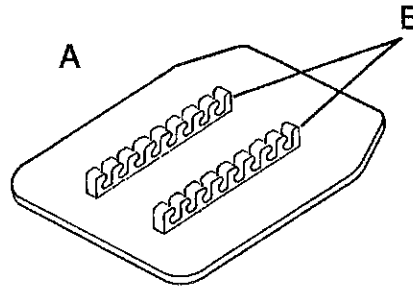
- A. MONTAGEM DA TALA
- B. HASTE DE ALINHAMENTO

ESPAÑOL

- A. CONJUNTO DE FÉRULA
- B. BARRA DE ALINEACIÓN

SVENSKA

- A. SKENA
- B. INRIKTNINGSSTAV

2**ENGLISH**

- A. BASE PLATE ASSEMBLY
- B. SLOTTED HOOKS

DANSK

- A. BUNDPLADEMONTERING
- B. RILLEKROGE

NEDERLANDS

- A. BASISPLAATCONSTRUCTIE
- B. GLEUFHAKEN

FRANÇAIS

- A. EMBASE
- B. CROCHETS À ENCOCHE

DEUTSCH

- A. GRUNDPLATTENVORRICHTUNG
- B. POSITIONSHAKEN

ΕΛΛΗΝΙΚΑ

- A. ΣΥΓΚΡΟΤΗΜΑ ΕΛΑΣΜΑΤΟΣ ΒΑΣΗΣ
- B. ΓΑΝΤΖΟΙ ΜΕ ΣΧΙΣΜΕΣ

ITALIANO

- A. BASE DI APPOGGIO
- B. FESSURE CON UNCINO

PORTUGUÊSE

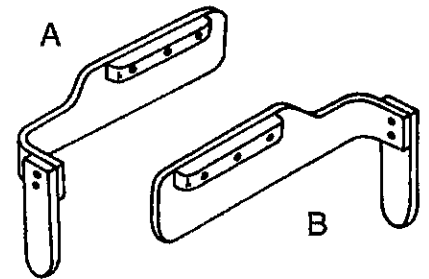
- A. MONTAGEM DA PLACA BASAL
- B. GANCHOS ENTALHADOS

ESPAÑOL

- A. CONJUNTO DE PLACA DE BASE
- B. GANCHOS RANURADOS

SVENSKA

- A. BASPLATTA
- B. SLITSADE KROKAR

3**ENGLISH**

- A. LEFT SUPPORT ASSEMBLY
- B. RIGHT SUPPORT ASSEMBLY

DANSK

- A. VENSTRE STØTTEMONTERING
- B. HØJRE STØTTEMONTERING

NEDERLANDS

- A. STEUNCONSTRUCTIE LINKS
- B. STEUNCONSTRUCTIE RECHTS

FRANÇAIS

- A. SUPPORT GAUCHE
- B. SUPPORT DROIT

DEUTSCH

- A. LINKE KNIESTÜTZENVORRICHTUNG
- B. RECHTE KNIESTÜTZENVORRICHTUNG

ΕΛΛΗΝΙΚΑ

- A. ΣΥΓΚΡΟΤΗΜΑ ΑΡΙΣΤΕΡΗΣ ΥΠΟΘΗΡΙΞΗΣ
- B. ΣΥΓΚΡΟΤΗΜΑ ΔΕΞΙΑΣ ΥΠΟΘΗΡΙΞΗΣ

ITALIANO

- A. GRUPPO DI SUPPORTO SINISTRO
- B. GRUPPO DI SUPPORTO DESTRO

PORTUGUÊSE

- A. MONTAGEM DO SUPORTE ESQUERDO
- B. MONTAGEM DO SUPORTE DIREITO

ESPAÑOL

- A. CONJUNTO DE SOPORTE IZQUIERDO
- B. CONJUNTO DE SOPORTE DERECHO

SVENSKA

- A. VÄNSTER STÖDPLATTA
- B. HÖGER STÖDPLATTA