

Second Article

### **An Intelligent Splint**

**Taking care traumatic accidents to lower limbs pose a problem when putting the limb in a setting. It is important in the process of analgesia. An analgesic injection, if the injury is not immobilized, is always insufficient. It is important also in order to preserve the vascular/nervous system.**

**There exists two types of splints:**

The depressed splints have the advantage to adapt to the conformities of the limb, but are inconvenient for maintaining rigidity, cannot be put in traction, cannot adapt to the length of the limb, and are a problem to take in an ambulance.

Rigid splints perfectly protect the limb, but can't adapt to deformities. The REEL Research Company had the good idea to make a rigid splint, of adjustable length, able to be put in traction, but able also to angle itself at the knee.

#### **Presentation**

Black cloth bands work together with colored metal structures, and the strong splint has a nice look. Able to be folded, the splint has a supple casing of 60x40 cm. It's light, it weights not more than 5 kg when assembled.

The adjustable part can be extended or removed when not in use. Each little part is adjustable, permitting a perfect fit. The angle at the knee can be make horizontal or vertical, permitting only if the limb can be moved also. Three half arcs covered in foam are used to manipulate the splint.

#### **Usage**

Using the splint is simple, it is not necessary to need to have a special way to use it for those who are used to using splint. It can be put into place by patients impeded by an injury, and of course be angle to fit the leg or deformities of the knee. Putting it in traction is completely easy to do by progressively rolling a strap around the outside of the splint.

#### **Our Advice**

The American Army, who tested and approved it, mainly uses this device. The solidity, the ease of use, and the efficiency should make it used by all first aid teams.