

[SS 44] suture and (twist+ or pick+ or pic+) and filament+ and (cm or in or "in") and braid+

Results in EPODOC 2

[SS 45] ..li

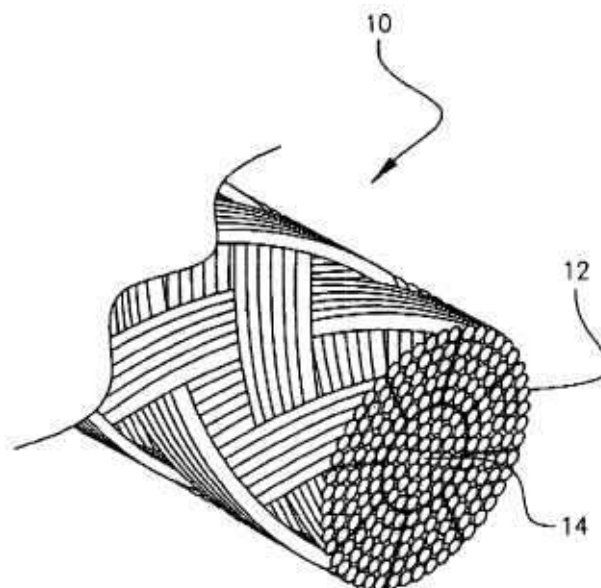


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PN - [RO123135](#) B1 20101230  
PR - RO20080000142 20080221  
AP - RO20080000142 20080221  
DT - I  
PA - INST NAȚIONAL DE CERCETARE DEZVOLTARE PENTRU TEXTILE ȘI PIELĂRIE [RO]  
TI - NON-ABSORBABLE SURGICAL SUTURE THREAD  
AB - The invention relates to some non-absorbable **braided** threads for surgical sutures having a **braided** structure made of polyester threads having a linear density of 280 +- 6% dtex, comprising 48 +- 30% **filaments** with a **twist** of 360 +- 50 Z, or a linear density of 167 +- 6% dtex, having 48 +- 30% **filaments** with a **twist** of 250 +- 40 Z, or a linear density of 88 dtex +- 6%, comprising 34 +- 30% **filaments** with a **twist** of 350 +- 50 Z, made by **braiding** 12 threads which are **twisted** by three at 120 +- 20 **twists**/m, at a **braid** count of 200 +- 12 **braids**/10 cm, or by two at 150 +- 24 **twists**/m, at a **braid** count of 130 +- 8 **braids**/10 cm, with a bifilar joining at a joining ratio R1=4 and the tension of the threads on the spools of 0.10...0.30 cN/dtex.

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PN - [US2004267313](#) A1 20041230  
PR - US20040874301  
20040624; US20030483084P  
20030627  
AP - US20040874301 20040624  
DT - \*; Rep  
CT - || R141 (A1)  
[US6716234](#) B2 [ ];  
[US5318575](#) A [ ]  
CCI - [A61B17/06166](#) ; [A61L17/10](#) ;  
[A61L17/145](#) ; [D07B1/025](#) ;  
[D01F6/04](#)  
CLC - [D07B2205/2014](#) , [D07B2801/10](#) ,  
ADD  
CCA - [A61B2017/00526](#) ;  
[D07B2201/1096](#) ;  
[D07B2205/2014](#)  
PA - LINVATEC CORP [US]  
TI - High strength multi-component



surgical cord

AB

- **In** the present invention, a gel-spun UHMWPE is subjected to secondary processing to reduce the concentration of the spin solvent(s) to acceptable levels before or after the fiber is woven with other fibers to form a **suture**. **In** the case of the spin solvent Decalin, it is well known that concentrations, in the fiber, of greater than 100 parts per million (ppm) render UHMWPE materials non-compatible with human tissues. Thus, UHMWPE materials that are to remain within the human body must have a Decalin concentration below 100 ppm to render them biocompatible. If desired, the **suture** may be **braided** about a core. The number of **filaments** in a single **suture** can vary between 4 and 24. Additionally, where a core structure is employed, up to 6 separate core **filaments** may be employed. Other materials such as PTFE, FEP, PFA, PVFD, PP, polyester, nylon, or aramid may be employed for the core and/or cover so long as spin solvent level has been reduced to below 100 ppm before or after **twisting** or **braiding**.