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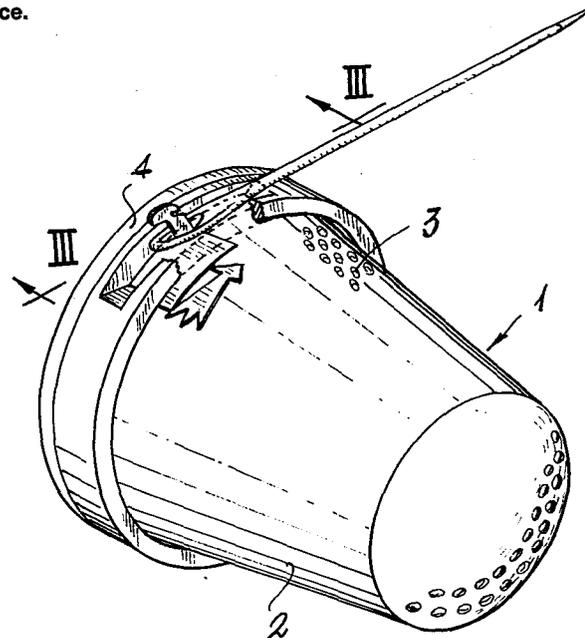
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A manual sewing thimble provided with needle threading device.

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The manual sewing thimble (1) is of the type comprising a hollow frusto-conical body (2) provided with an edge (4) and is characterised in that to said thimble (1) there is associated a device for threading a thread yarn (18) into the eye (10) of the sewing needle (11). Said device comprises a ring (6) carrying on its outer surface a circumferential groove (7) having on its center line a projecting laminate element (12) lying with its major axis parallel to the major axis of said circumferential groove, one side edge (13) of said laminate element is shaped to form a hook (14) and the opposite side edge (15) of the same laminate element has a narrow slot (16), said hook and slot projecting beyond said circumferential groove.



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A manual sewing thimble provided with needle threading device

The invention relates to a manual sewing thimble having attached thereto a needle threading device.

To thread a needle is an operation which can be accomplished with easiness and rapidity only by particularly skilled people and which, on the contrary, is of particular difficulty for unskilled people and/or for the persons having sight troubles.

Are not known, up-to-date, small needle threading devices making part of a thimble so as to allow the operator to thread the needle and also to allow the same operator to carry it in the purse for the necessity of immediate sewings.

The invention as claimed is intended to provide a manual sewing thimble having associated thereto a needle threading device with can be used without difficulty at all by the interested persons also if having sight troubles and which has such reduced dimensions to be easily carried in a purse.

According to the invention, the manual sewing thimble is of the type comprising a hollow frusto-conical body provided with an edge and is characterised in that to said thimble there is associated a device for threading a thread yarn into the eye of the sewing needle. Said device comprises a ring carrying on its outer surface a circumferential groove having on its center line a projecting laminate element lying with its major axis parallel to the major axis of said circumferential groove, one side edge of said laminate element is shaped to form

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a hook and the opposite side edge of the same laminate element has a narrow slot, said hook and slot projecting beyond said circumferential groove.

5 One way for carrying out the invention is described in detail below with reference to drawings which illustrate only one specific embodiment and the operation thereof. In the drawings:

Figure 1 is a perspective view showing the thimble and the associated needle threading device,
10 Figure 2 is an enlarged perspective view of the needle threading device, and
Figures 3-5 show schematically the needle threading operation.

The figures show a manual sewing thimble, generally
15 denoted at 1, comprising a hollow frusto-conical body 2 having on the outer surface a plurality of conventional dottings 3.

Near the edge 4 of the body 2 there is provided a circular seat 5 forming the housing for a ring 6 carrying
20 on its outer surface a circumferential groove 7 having two opposed substantially vertical shoulders 8 and two opposed substantially inclined end shoulders 9 and 9'. The width of the groove 7 is larger than the maximum size of an eye 10 of a conventional manual sewing needle 11.

25 A laminate element 12 projects from the center line of the groove 7 and said element 12 has its major axis arranged parallel to the major axis of the groove 7. The edge 13 of element 12 facing the shoulder 9 is shaped to form an ample hook 14 while the opposite edge 15 is inclined

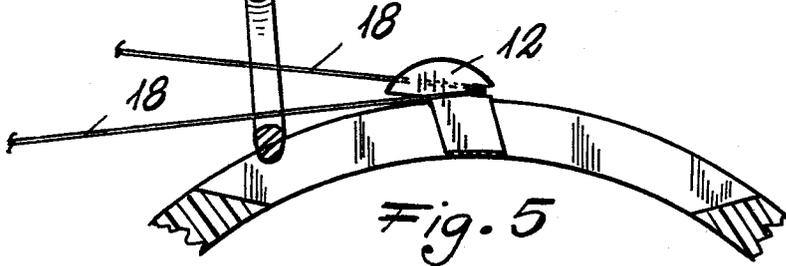
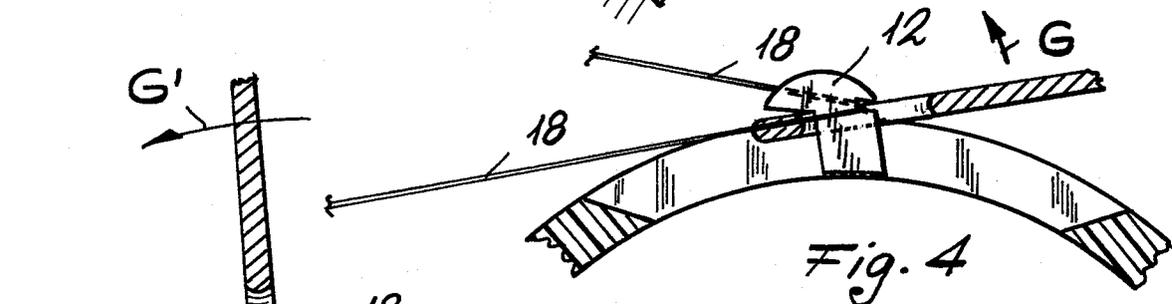
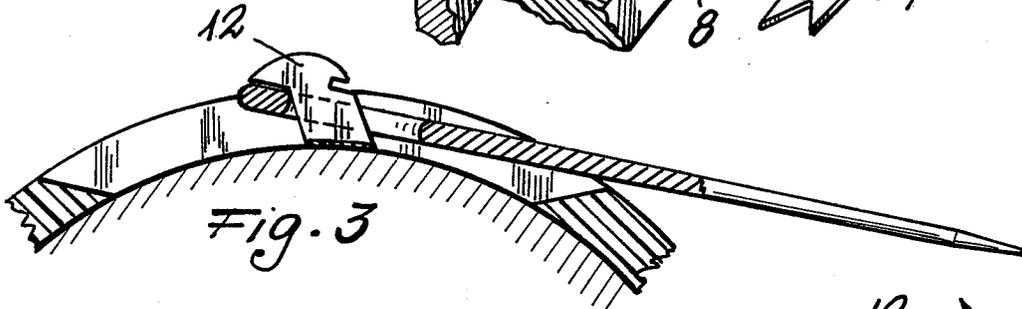
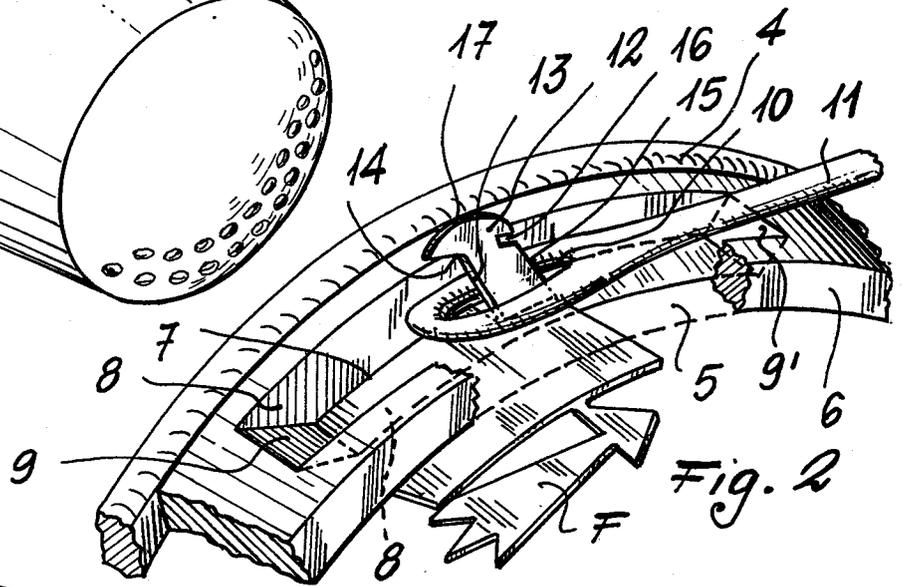
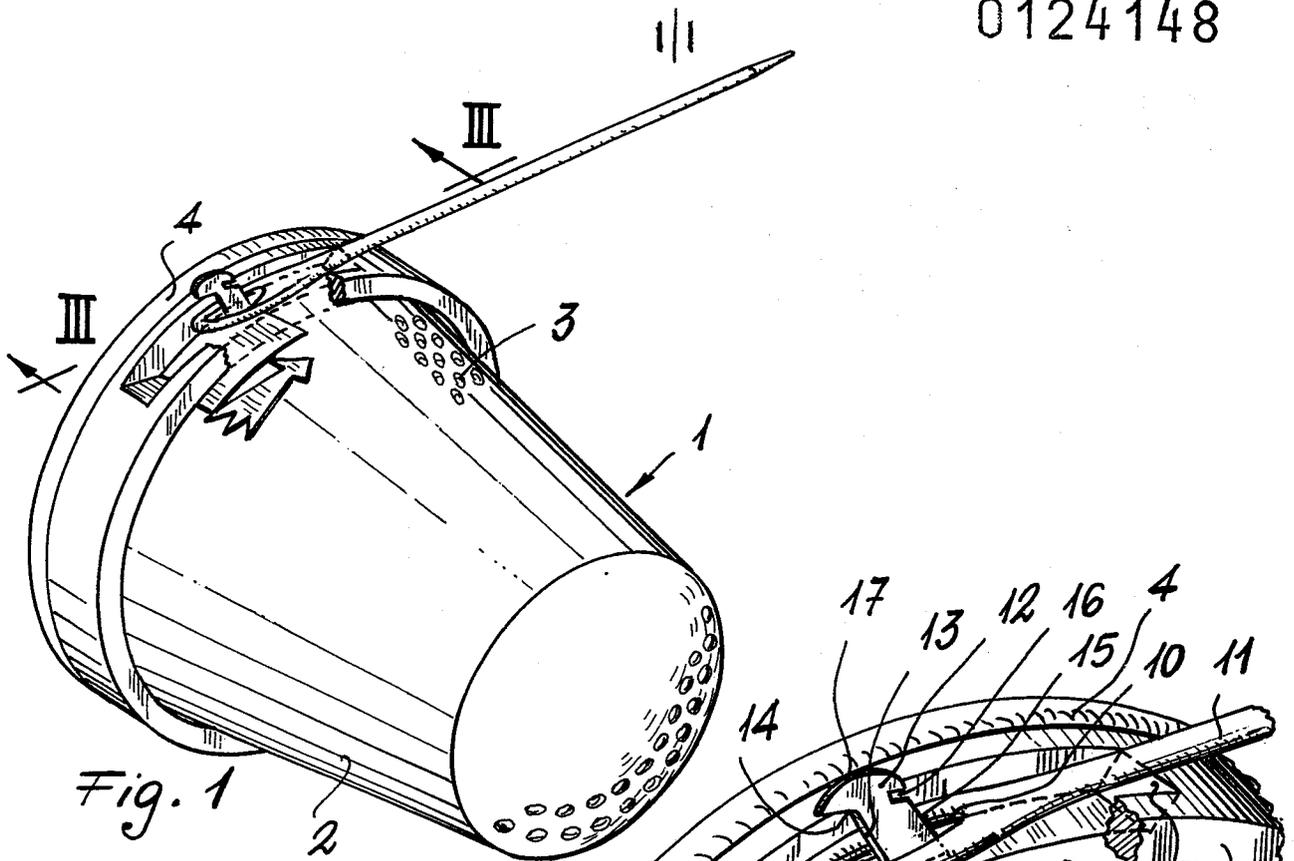
relative to the vertical in the same direction of the shoulder 9 and is provided with a narrow slot 16, both the hook 14 and the slot 16 project beyond the circumferential groove 7. The upper edge portion of the laminate element 12 is shaped as an arc of circle and the section and height of the same laminate element 12 are smaller than the width and length of said eye 10, respectively.

A metal arrow shaped element F is positioned outwardly of the circumferential groove 7 and parallel to the major axis thereof so as to indicate the direction in which the needle 11 has to be positioned for a proper use of the needle threading device.

In the operation, the thimble 1 is conventionally carried by an operator's finger and for threading the needle 11 it will be sufficient to cause the eye 10 to slide in the direction of arrow F along the groove 7 until said eye is engaged by the hook 14. On releasing the needle 11 it will dispose itself along the bottom of the groove 7, tangentially to the body 2 and projecting out of the groove 7 in direction of the shoulder 9'. A length of sewing thread yarn 18 is retained at one end while sliding by the other end along the needle 11 until it engages the slot 16. The needle 11 is then rotated (arrow G) for its disengagement (arrow G') from element 12 and, doing so, the yarn 18 is automatically threaded into the eye 10.

Claims:

- 5 1. A manual sewing thimble of the type comprising a hollow frusto-conical body (2) provided with an edge (4), characterised in that to said thimble there is associated a device for threading a thread yarn (18) into the eye (10) of a sewing needle (11), said device comprising a ring (6) carrying on its outer surface a circumferential groove (7) having on its center line a projecting laminate element (12) lying with its major axis parallel to the major axis of said circumferential groove (7), one side edge (13) of said laminate element (12) being shaped to form a hook (14) and the opposite side edge (15) of the same laminate element (12) having a narrow slot (16), said hook and slot projecting beyond said circumferential groove (7).
- 10 2. A manual sewing thimble as claimed in claim 1, wherein said laminate element (12) has a section and height smaller than the width and length of said eye (10) respectively.
- 15 3. A manual sewing thimble as claimed in claim 1, wherein said laminate element (12) has a top portion (17) in the shape of an arc of circle.
- 20 4. A manual sewing thimble as claimed in claim 1, wherein said one side edge (13) is inclined relative to the vertical.
- 25 5. A manual sewing thimble as claimed in claim 1, wherein said ring (6) is housed in a circular seat (5) located adjacent to said edge (4).





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EUROPEAN SEARCH REPORT

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Application number

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
Y	FR-A-1 309 867 (ROSTAIN) * Whole document *	1	D 05 B 91/C4 D 05 B 87/00
A		5	
Y	US-A-1 394 394 (BALKEY) * Whole document *	1	
A	GB-A- 27 257 (COMINGS) (A.D.1911) * Whole document *	2-4	
A	US-A-2 788 759 (PEETS) * Column 2, lines 45-50 *		
			TECHNICAL FIELDS SEARCHED (Int. Cl. ³)
			D 05 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 11-07-1984	Examiner VUILLEMIN L. F.
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			