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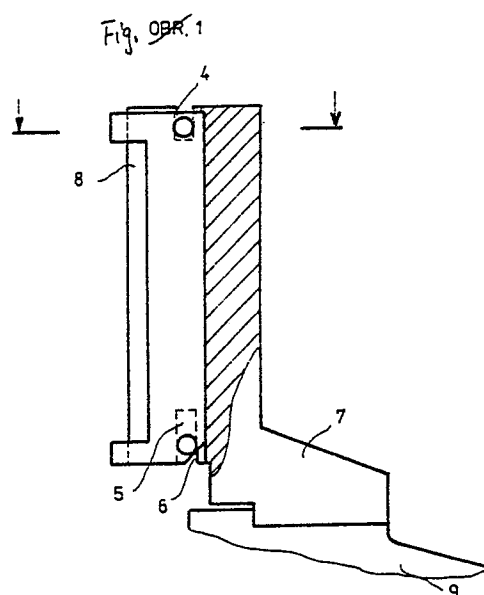
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54 Cam block for knitting machines.

57 The vertical part of the body (7) of the cam block is made in the form of a U-profile delimited by side walls (8) and a bottom formed by the mass of the cam block body. In the side walls (8) of the cam block are formed upper and lower recesses (4, 5). A cam holder (1) is mounted in the U-profile and provided with upper and lower pins (2, 3). The upper pin (2) engages the upper recesses (4), and the lower pin (3) engages the lower recesses (4) in the side walls (8) of the cam block. The cam holder is provided in side view in the lower right corner with a bevel (6).



EP 0 348 896 A1

Cam Block for Knitting Machines

The present invention relates to a cam block for knitting machines, particularly to an arrangement in this cam block.

Knitting machines are known in which the cams are fastened on holders, and said holders are fixed on cam blocks by means of screws, their positions being secured by means of positioning pins. A device is known in knitting machines, in which are mounted holders with cams, and the holders are provided in the upper part with two flat projections which are, upon mounting, at an inclined position of the holder inserted into recesses in circular suspension eyes, which are mounted on the cam carrier and thereafter, by swinging the holder into vertical position, said flat projections are supported against the inner circumference of the suspension eyes, thus being fixed in this one position. The holder is fixed by its bottom side in this position by means of a screw.

The disadvantage of these arrangements consists in that the mounting and dismounting as well as the exchange of the individual cam holders is labourious and time demanding. A further disadvantage consists in the necessity of precise drilling of openings for the fixing screws as well as for the positioning pins. A still further disadvantage is, that in those arrangements the cams are mounted stationarily in the vertical direction.

The object of the present invention consists in removing the above disadvantages and in forming a more simple arrangement with a smaller number of connecting elements to be used.

This is substantially obtained by that the cam block according to the present invention has its vertical body part in the form of a U-profile delimited by side walls and a bottom formed by the mass of the vertical part of the cam body, upper and lower recesses being formed in the side walls, and a cam holder being mounted in the U-profile in the cam block, said holder being provided with upper pins engaging the upper recesses and lower pins engaging the lower recesses in the side walls of the cam block. The cam holder forms in side view a wide U-profile, and its lower right corner is provided with a bevel.

The advantage of the cam block according to the present invention consists in that it makes possible an easy and quick exchange of cam holders, permits a vertical adjustment of the height position of the cams, and thus a change of the sinking depth of the not represented needles.

A cam block in exemplary embodiment is represented in the accompanying drawing, of which

Fig. 1 represents the cam block in partial sectional side view;

Fig. 2 the cam block in top view along line in Fig. 1, and

Fig. 3 a front view of the cam holder.

The cam block 7 according to the present invention is formed, in this exemplary embodiment, in the vertical part into a U-profile delimited by side walls 8 and a bottom formed by the mass of the body of cam block 7. In the side walls 8, upper recesses 4 and lower recesses 5 are made. The lower recesses 5 are deeper than the upper recesses 4. In the vertical part of the body of the cam block 7 a cam holder 1 is inserted into the U-profile, said cam holder carrying not represented cam parts fastened thereto. The cam holder 1 is provided in its upper part with pins 2 and in its lower part with pins 3 projecting laterally therefrom. The pins 2 of the cam holder 1 engage the upper recesses 4 in the walls 8 of the cam block 7, and the lower pins 3 of the cam holder 1 engage the lower recesses 5 in the walls 8 of the cam block 7. The mounting of the pins 2 of the holder 1 in the upper recesses 4 and of the pins 3 in the lower recesses 5 delimits the radial position of the cam holder 1 and thus that of the cams, but permits its axial motion. The assembly of the cam block 7 with the cam holder 1 with the not represented cams is mounted in a known manner on the table 9 of the knitting machine.

The cam holder 1 is inserted into the cam block 7 in such a manner that with the declined upper part of the holder 1 from the cam block 7, i.e. with the bevel 6 parallel to the bottom of the U-profile in the cam block 7, the lower pins 3 of the cam holder 1 are inserted into the lower recesses 5 in the side walls 8 and displaced upwards, so that pins 2 of holder 1 can swing over the front edges of the walls 8 and are set up above recesses 4 in walls 8 and lowered into them. For that reason, the lower recesses 5 are deeper than the upper recesses 4. The bevel 6 makes possible to overturn holder 1 from its inclined position into the vertical position in the U-profile of the cam block 7.

Upon insertion of holder 1, the not represented adapted part in the rear wall of holder 1 bears against the projecting element of a not represented device for the adjustment of the height of cams, which is mounted in the vertical part of the body of the cam block 7, by means of which it is possible to adjust the height of holder 1 by displacing pins 2, 3 in the recesses 4, 5, and thus adjust the height of the not represented cams mounted on the holder 1 for the purpose of changing the sinking depth of the not represented needles.

Claims

1. Cam block for knitting machines with a cam holder mounted therein, on which cam parts are fastened,

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characterized in that

the vertical part of the cam block (7) body is made in the form of a U-profile delimited by side walls (8) and a bottom formed by the mass of the vertical part of cam block (7), upper recesses (4) and lower recesses (5) being formed in the side walls (8), and a cam holder (1) being mounted in the U-profile of the cam block (7), said cam holder (1) being provided with upper pins (2) engaging the upper recesses (4), and lower pins (3) engaging the lower recesses (5) in the side walls (8) of cam block (7).

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2. Cam block as claimed in claim 1, characterized in that the cam holder (1) in the side view has the shape of the letter C, and on its lower right corner is provided a bevel (6).

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3. Cam block as claimed in claim 1, characterized in that the recesses (4, 5) are formed as vertical aligned slots open to the upper and lower surfaces of the side walls (8) respectively, the lower recesses (5) being deeper than the upper recesses (4).

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Fig. OBR. 1

Fig. OBR. 3

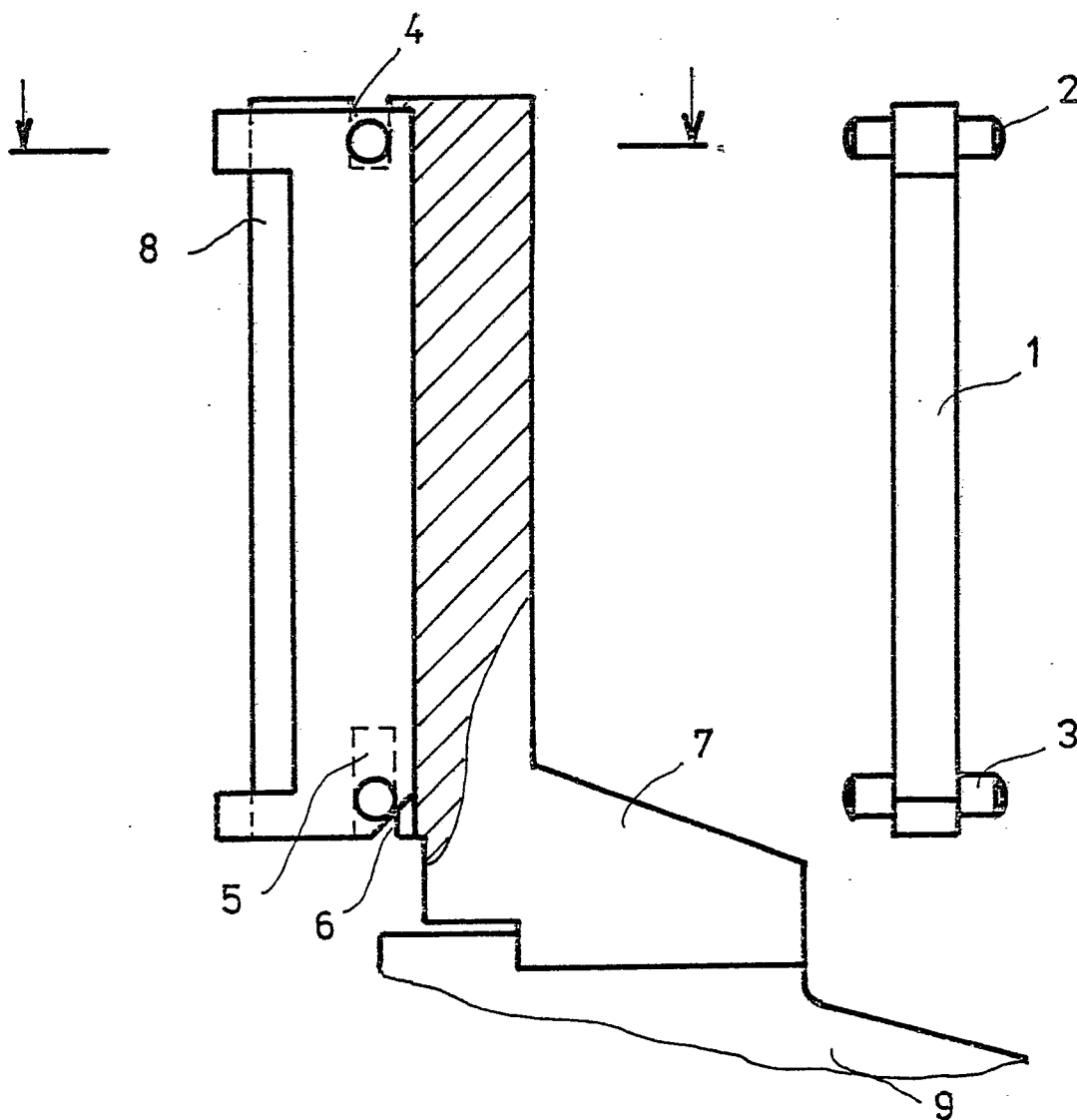
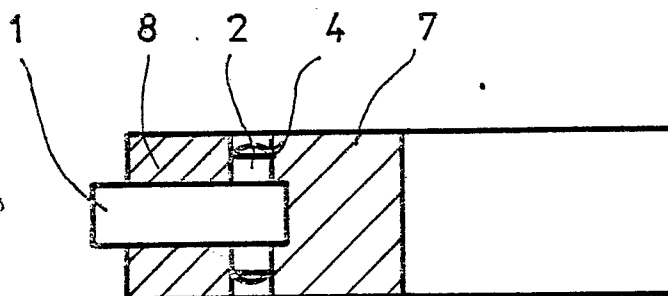


Fig. OBR. 2



Z V S
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for 06



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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.5)				
A	US-A-3882694 (STEPANEK) ---		D04B15/32				
A	FR-A-2255407 (VEB WIRKMASCHINENBAU KARL-MARX-STADT) ---						
A	DE-A-2643185 (MACCHINE TESSILI CIRCOLARI MATEC S.P.A.) -----						
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)				
			D04B				
The present search report has been drawn up for all claims							
Place of search THE HAGUE		Date of completion of the search 17 OCTOBER 1989	Examiner VAN GELDER P.A.				
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