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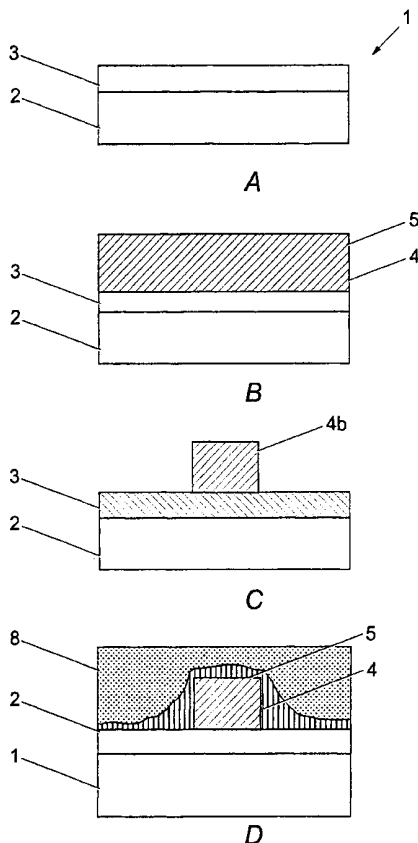
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[Continued on next page]

(54) Title: OPTICAL WAVEGUIDE WITH A MULTI-LAYER CORE AND METHOD OF FABRICATION THEREOF



(57) Abstract: An optical waveguide (1) with a multi-layer core (6) comprises a substrate (2), a composite core waveguide (7) formed on the substrate (2) and at least one upper cladding layer (8) embedding said core waveguide (7). The core waveguide (7) is characterised by a composite core layer (6) comprising a first core layer (4) with a consolidation temperature T_{1C} formed on the substrate (2) and at least one other core layer (5) formed on the first core layer (4), wherein the softening temperature T_{2S} of at least one of said at least one other core layers (5) is equal to or less than the consolidation temperature T_{1C} of at least one underlying core layer (4, 5).

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>PATENT ABSTRACTS OF JAPAN vol. 017, no. 609 (P-1640), 9 November 1993 (1993-11-09) & JP 05 188231 A (SUMITOMO ELECTRIC IND LTD), 30 July 1993 (1993-07-30) abstract</p> <p style="text-align: center;">--- -/--</p>	<p>1-5, 7, 8, 10-22, 24-30, 35, 36</p>

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 017, no. 495 (P-1608), 7 September 1993 (1993-09-07) -& JP 05 127032 A (FUJITSU LTD), 25 May 1993 (1993-05-25) abstract; figure 3 -& DATABASE WPI Section Ch, Week 199325 Derwent Publications Ltd., London, GB; Class L03, AN 1993-201198 XP002162508 abstract ---	1,4,5,7, 8,12, 16-22, 26,30, 35,36
X	EP 0 890 850 A (LUCENT TECHNOLOGIES INC) 13 January 1999 (1999-01-13) column 5, line 16 -column 6, line 1 column 7, line 15 - line 21 figures 5-11 ---	1,2,4,5, 7-10,12, 13, 16-22, 24-30, 35,36
X	US 5 438 639 A (FORD CAROL M ET AL) 1 August 1995 (1995-08-01) column 3, line 64 -column 4, line 64; figure 2 ---	1,2,4,5, 7,9,12, 13,16, 21,23, 35,36
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INTERNATIONAL SEARCH REPORT

Int'l. Application No

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