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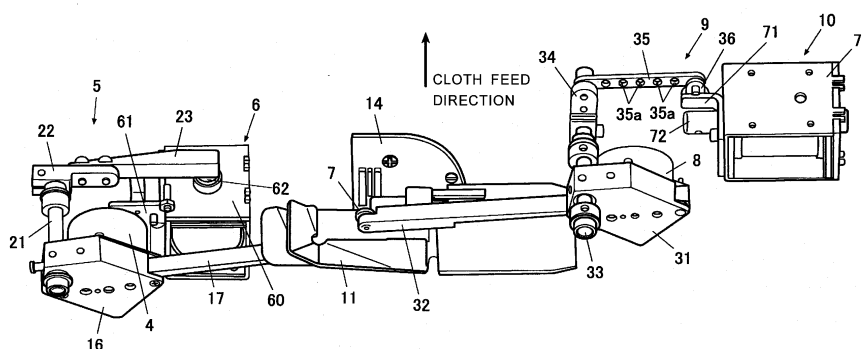
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(54) **Upper-and-lower feed sewing machine**

(57) The invention relates to an upper-and-lower feed sewing machine (100). The upper-and-lower feed sewing machine (100) includes a feed dog (1) which feeds a lower workpiece (C1), a feed foot (2) which feeds an upper workpiece (C2), a lower roller (3) moves the lower workpiece (C1) in a direction intersecting a cloth feed direction, lower driving means (4) for rotating the lower roller (3), an upper roller (7) which moves the upper workpiece (C2) in the direction intersecting the cloth feed direction, upper driving means (8) for rotating the upper roller (7), a separating plate (11) which holds the lower workpiece (C1) and the upper workpiece (C2) in coop-

eration with the lower roller (3) and the upper roller (7), detecting means (12) for detecting whether the workpieces (C1, C2) are in respective positions, and a control means (13) for controlling the respective driving means. The upper-and-lower feed sewing machine (100) further includes lower pressing means (6) for pressing the lower roller (3) against the lower workpiece (C1), and upper pressing means (10) for pressing the upper roller (7) against the upper workpiece (C2). The control means (13) individually controls respective amounts of current applied to the pressing means (6, 10).

FIG. 3





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A	JP H04 108490 A (AGENCY IND SCIENCE TECHN) 9 April 1992 (1992-04-09) * abstract; figures 1-4 *	1-5	
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The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 5 February 2015	Examiner Herry-Martin, D
CATEGORY OF CITED DOCUMENTS 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		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	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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