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(54) **A load-bearing composite slab for buildings**

(57) The invention relates to load bearing slab structures used in buildings. The slab structure (1) comprises at least a corrugated joining plate (3) made of metal, a concrete layer (7) arranged on top of said slab and attached thereto, and below said slab a heat insulation layer (8) that is at its top surface (Py) engaged with the joining plate. The joining plate (3) is arranged to carry those tensile stresses of the total load that are directed thereto during the use of the slab structure, while the concrete (C) is hardened. In addition, the slab structure

comprises a continuous steel sheet part (4) that is attached to the bottom surface (Pa) of the heat insulation layer by surface engagement, or a number of adjacent steel sheet profiles attached to said surface by surface engagement. Said sheet part or profiles have dimensions to carry those tensile stresses that are directed thereto while the concrete layer of the slab structure is in the form of non-hardened concrete mass (B). The slab structure and the concrete layer constitute the principal load bearing part of the slab structure.

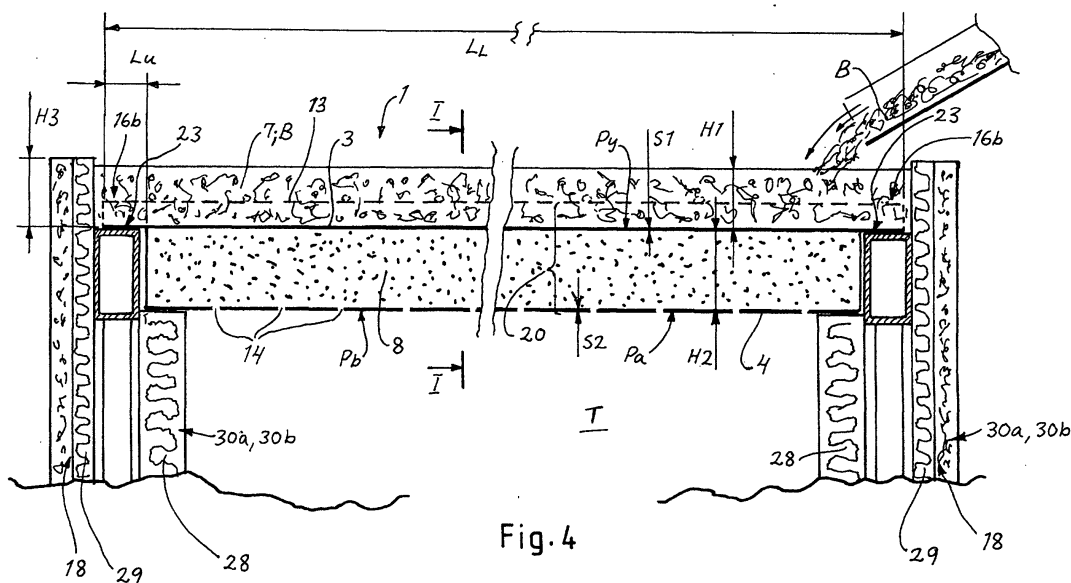


Fig. 4



European Patent
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EUROPEAN SEARCH REPORT

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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 3 July 2003	Examiner Stern, C
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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EP 02 39 6056

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