

Title (en)
Sewing machine.

Title (de)
Nähmaschine.

Title (fr)
Machine à coudre.

Publication
EP 0337952 A1 19891018 (FR)

Application
EP 89810270 A 19890407

Priority
CH 137588 A 19880414

Abstract (en)
The invention relates to a sewing-machine frame comprising a supporting base (10), a column (9) projecting from this base and carrying two horizontal arms (7,8) intended for respectively supporting the sewing needle and its control mechanism (M1), as well as a device (M2) for driving the material to be sewn and a loop sensor. The frame consists of a mass of plastic (6) and comprises a resistant skeleton (2,3,4 and 5) extending at least over some of the length of the arms/or of the column. The skeleton is fixed to the mass of plastic and has such dimensions that this mass is not damaged under the action of the forces exerted on the frame when the machine is in operation. <IMAGE>

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D05B 75/00

IPC 8 full level
D05B 73/00 (2006.01)

CPC (source: EP US)
D05B 73/00 (2013.01 - EP US); **D05D 2209/10** (2013.01 - EP US)

Citation (search report)

- [A] GB 1530875 A 19781101 - WESTERN STAMPING CORP
- [A] DE 2908346 A1 19800911 - DROEGE WILFRIED ING GRAD
- [A] DE 2558450 A1 19770707 - KOEMMERLING KUNSTSTOFF
- [A] DE 2722824 A1 19781123 - FUCHS FA OTTO
- [A] US 4440434 A 19840403 - CELLI ALDO [IT]
- [A] FR 1537818 A 19680830 - MACH A COUDRE COSSON
- [A] FR 1395834 A 19650416 - MACH A COUDRE COSSON
- [A] PRODUCT ENGINEERING, avril 1973; "Weight-saving foam plastic sandwiches form auto chassis"
- [A] INGENIEURS DE L'AUTOMOBILE, no. 4, juin 1983, pages 81-84, Paris, FR: M.M. COSTES et al.: "Le SMC: Une technique industrielle pour l'automobile?"
- [A] INGENIEURS DE L'AUTOMOBILE, no. 4, juin 1983, pages 29-42, Paris, FR; M. ROUBINET: "Critères de choix de pièces en matériaux composites"

Cited by
EP0488955A1; US5205230A; US5231942A; AU640022B2; WO9118139A1

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DOCDB simple family (publication)
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