

Title (en)

POCKETED SPRING MATTRESS AND INNERSPRING CONSTRUCTION AND THEIR METHOD AND DEVICE OF MANUFACTURE

Title (de)

TASCHENFEDERKERNMATRATZE UND FEDERKERNKONSTRUKTION UND VERFAHREN UND VORRICHTUNG ZU IHRER HERSTELLUNG

Title (fr)

PROCEDE ET MACHINE D'ASSEMBLAGE DE JEUX DE RESSORTS A PARTIR DE RESSORTS CONTENUS DANS DES POUCHES ET CONFIGURATION DE JEUX DE RESSORTS

Publication

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Application

**EP 01998502 A 20011129**

Priority

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Abstract (en)

[origin: WO0244076A2] This invention describes a method and a machine for making inner spring units from pocketed springs, by depositing a hot melt adhesive on the springs' surfaces. It also describes an innerspring construction from pocketed springs that utilizes a sheet of fabric or non-woven to hold the springs together in such a way that the springs keep their independence although attached to the sheet. Application of the adhesive is done by transferring hot melt material from a pool and depositing it on to the springs' surface. Several devices are proposed for this transfer. Some of them are, rotating stamps, translating and rotating plates which apply the glue simultaneously on all springs of a row, as well as a traveling mechanism which uses rolling disks to deposit the glue progressively on the springs of a row. Other mechanisms have also been devised for cutting, gripping, transferring and assembling a row of pocketed springs. The pocket spring construction described here makes use of two sheets of fabric or non-woven which are attached to the flat surfaces of the springs. They are rippled, so that when a certain spring is depressed there is enough extra sheet material to allow the spring to move without pulling its neighboring springs down with it.

[origin: WO0244076A2] The present invention refers to a method and a machine for the production of innerspring units which are produced by gluing parallel rows (strips) of springs. The springs (4) are entrapped in strips of cloth (3) or non-woven material (3), where the gluing of the spring rows to each other is done with liquid glue, which is stamped on the sides of the spring rows. The innerspring construction which is described, possesses the quality of having a sheet of cloth or non-woven glued to its flat surfaces and, at the same time, maintaining independence of the individual springs.

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