Title (en)
METHOD FOR MAKING SPRING MATTRESSES COMPRISING A SPRING CORE PROVIDED WITH A BORDERFRAME ON ITS LOWER AND UPPER SIDE

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Application
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Abstract (en)
[origin: WO8902323A2] An automatic frame bending machine is disclosed for bending off rod steel or steel bands, and a process and device for producing spring mattresses. The purpose of the invention is to design a frame bending machine with which frames of the most diverses types can be automatically produced without risk of material losses or of deforming the frames. The frame bending machine should also be easy to integrate in an assembly line. For this purpose, a spool is provided, after which the steel passes through a wire straightener composed of a rotor and rollers, measurement and traction rollers linked to the bending device, cutting means and a centering metal sheet. Hydraulic motors controlled by a microprocessor from a control panel are provided for driving and bending.

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Citation (search report)
• [YP] US 4724590 A 19880216 - LANGAS ARTHUR [US], et al
• [Y] DE 3445849 A1 19860619 - DUERR AUTOMATION & FOERDERTECH [DE]
• [AP] GB 2201341 A 19880901 - AISIN SEIKI
• [AP] WO 8705250 A1 19870911 - GROENDAHL SVEN ALGOT
• [A] DE 2030793 B

Cited by
CN110871251A

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DE ES FR GB IT

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EP 0307062 A2 19890315; EP 0307062 A3 19890920; CA 1332805 C 19941101; DE 3851342 D1 19941006; EP 0343199 A1 19891129; EP 0482674 A2 19920429; EP 0482674 A3 19920603; EP 0482674 B1 19940831; GR 871408 B 19870917; JP H02501205 A 19900426; JP H0669593 B2 19940907; MX 170669 B 19930803; US 5054178 A 19911008; WO 8902323 A2 19890323; WO 8902323 A3 19890518

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