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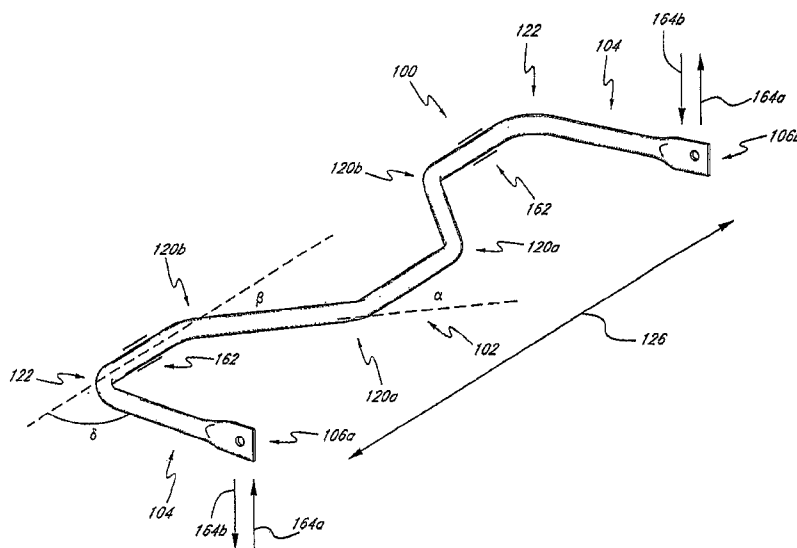
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(54) Title: METHOD OF PRODUCING HIGH- STRENGTH METAL TUBULAR BAR FOR VEHICLE STABILIZER POS-  
SESSING IMPROVED COLD FORMABILITY



(57) Abstract: A method for producing a high strength tubular bar 114, more particularly a stabilizer bar 100, is provided. The method comprises providing a tubular bar 114 of desired size heating the bar 114 to an elevated temperature, quenching the bar 114 by application of a cooling fluid to the surfaces 112a, 112b of the bar 114, and cold bending the tube to a desired shape without annealing. The bar has preferably a composition of 0.13-0.35% C, 0.8-2.0% Mn, 0.1-0.7% Si, 0.01-0.07% Al, and optionally up to 0.50% Cr, up to 0.25% Mo, up to 0.30% V. The bar as quenched has an ultimate strength of more than 1400 MPa, a yield strength to ultimate tensile strength ratio of between 0.65 and 0.90 and an elongation of more than 12%. The bar as bent has a fatigue life of more than 300000 cycles when a region of at least one of the bends is subjected to cyclic stresses above 450 MPa.

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A. CLASSIFICATION OF SUBJECT MATTER  
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According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, COMPENDEX

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See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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