

Title (en)

Stretch forming metal bodies with polymeric internal mandrels

Title (de)

Stretchformung von Metallkörpern mit internen polymerischen Dornen

Title (fr)

Formage par étirage de corps métalliques avec des mandrins interne polymériques

Publication

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Application

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Priority

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- US 83961697 A 19970415

Abstract (en)

A hollow metal body is shaped by a process including simultaneous stretching and bending. The body is stretched longitudinally by pulling end portions in opposite directions with sufficient force to exceed an elastic limit and to initiate elongation through plastic deformation. While the body is being stretched longitudinally, it is bent between its end portions transversely of the direction of pulling. Solid polymeric first and second mandrels are inserted into end portions of the body to prevent collapse during bending. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Cited by

CN105195622A; CN102228921A; GB2442793A; DE19926330A1; DE19926330C2; DE102014107389A1; CN109513793A; WO2018006113A1; WO0076683A1

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