

Title (en)

Method and machine for bending tubular elements to a variable radius of curvature

Title (de)

Verfahren und Vorrichtung zum Biegen von rohrförmigen Werkstücken mit veränderlichem Biegeradius

Title (fr)

Procédé et dispositif pour cintrer des éléments tubulaires avec rayon de courbure variable

Publication

**EP 1468756 A1 20041020 (EN)**

Application

**EP 04101562 A 20040415**

Priority

IT VI20030076 A 20030415

Abstract (en)

A bending method for tubular elements in a bending machine (1) comprising a central vice (3) and two moving bending heads (4, 5) provided with bending means (11) and positioned on the sides of the vice (3). The method comprises the following operations: positioning a tubular element (T) inside the vice (3) and the bending heads (4, 5); holding a tubular element (T) in bending position inside the vice (3) and the bending heads (4, 5); rotating the bending means (11) of the bending heads (4, 5) to bend the tubular element (T), the rotation of the bending means (11) being combined with the travel of the bending heads (4, 5) with respect to the vice (3) to make bends with variable radius of curvature on the tubular element (T).  
<IMAGE>

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CPC (source: EP)

**B21D 7/08** (2013.01); **B21D 7/12** (2013.01)

Citation (search report)

- [A] US 4604885 A 19860812 - LANG THOMAS P [DE]
- [A] DE 2546695 A1 19770324 - DAIICHI KOSHUHA KOGYO KK
- [A] PATENT ABSTRACTS OF JAPAN vol. 016, no. 388 (M - 1297) 18 August 1992 (1992-08-18)

Cited by

CN103801602A; CN103567262A; CN106825156A; CN103846326A; JP2017516663A; CN106238524A; CN113020354A; US2018221930A1; AU2016310662B2; US11229938B2

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