

Title (en)

A portable hydraulic pipe bending apparatus with a rotary chain actuated groove pulley matrix and groove countermatrix bending head.

Title (de)

Tragbare Rohrbiegevorrichtung mit einem Kettenantrieb der Biegeschablone und Biegearm.

Title (fr)

Appareil de cintrage de tubes portable avec une matrice entraînée par des chaînes et un sabot à gorge.

Publication

EP 0560741 A1 19930915

Application

EP 93830092 A 19930310

Priority

IT RM920171 A 19920312

Abstract (en)

The subject of the invention is a hydraulically actuated pipe bending apparatus with a rotary bending head, comprising a rotary groove pulley matrix and a countermatrix, which has a groove too, a drive shaft (4) of the matrix and an actuating hydraulic cylinder (8) with a piston rod (6) which by means of its forward active displacements moves the drive shaft (4) of the matrix, wherein the drive shaft (4) of the matrix is moved by the piston rod (6) through two chains (22, 22') wound on the drive shaft so as to be spaced apart from each other and parallel to each other, connected with the piston rod (6) symmetrically and parallelly to the axis of the same through a head element (28); the drive shaft (4) being biased to the position of winding of the chains (22, 22') by a spring (26); as well as endowed with an adjustable end of stroke for the piston rod (6), made up by a graduated screw (34) with its axis on the axis of the piston rod (6), the indexes whereof indicate angles of bending of a pipe, with their coinciding with the outer edge of a screw nut (36), through which the graduated screw (34) itself is assembled on the wall of the housing (32) that receives the stroke of the piston rod (6). <IMAGE>

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IPC 8 full level

B21D 7/024 (2006.01)

CPC (source: EP)

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- [X] DE 1810226 A1 19690814 - COMBUSTION ENG
- [Y] DE 2262357 A1 19740627 - BANNING AG J
- [Y] US 4269054 A 19810526 - EATON HOMER L
- [A] FR 1350717 A 19640131

Cited by

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