

Title (en)  
BENDING MACHINE FOR MAKING U-SHAPED BENDS IN PIPES

Title (de)  
BIEGEVORRICHTUNG ZUM U-FORMIGEN BIEGEN VON ROHREN

Title (fr)  
MACHINE POUR CINTRER LES TUBES EN FORME DE U

Publication  
**EP 2522441 A1 20121114 (EN)**

Application  
**EP 12167930 A 20120514**

Priority  
IT VR20110102 A 20110513

Abstract (en)  
A bending machine (1) comprising feeding means (5) of a plurality of substantially rectilinear pipes, a cutting group (12) of the pipes coming from said feeding means (5), at least one bending group (6) comprising at least one bending arm (7) suitable for bending said plurality of pipes, coming from said cutting group (12), according to a certain bending angle, thus making a plurality of tubular hairpins (8); extraction means (9,13,13a) of the hairpins (8) in a collection area (10), said bending group (6) comprising a rotary central support (23) of said bending arm (7) and a rotary actuation group (26), coupled with said rotary central support (23), comprising at least one electric motor (27) and a respective reducer (28), said rotary actuation group (26) comprising a servo-actuation of said brushless electric motor (27) operating in a closed loop and a programmable unit for controlling the operation to which said servo-actuation is operatively connected. The servo-actuation comprises control means (100) of the bending cycle suitable for optimising the acceleration ramp, the translation speed and the deceleration ramp of said bending arm (7).

IPC 8 full level  
**B21D 7/024** (2006.01); **B21D 11/07** (2006.01)

CPC (source: EP)  
**B21D 7/024** (2013.01); **B21D 11/07** (2013.01)

Citation (search report)  
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