

Title (en)  
Strapping head and strapping machine

Title (de)  
Umreifungskopf und Umreifungsmaschine

Title (fr)  
Tête de cerclage et machine de cerclage

Publication  
**EP 2397412 A1 20111221 (EN)**

Application  
**EP 11382155 A 20110517**

Priority  
ES 201030860 A 20100604

Abstract (en)  
The invention relates to a strapping head and a strapping machine with said head. The strapping head comprises a first tamper, a second tamper and a third tamper involved in the strap casting, recovery, tightening, welding and cutting operations, each of the tampers being provided with a respective work surface oriented towards one of the faces of the object to be strapped, each of the tampers being susceptible to being shifted in a direction perpendicular to their work surfaces, essentially parallel to one another, between a forward movement end position and a backward movement end position with respect to the object to be strapped and the strap that will wrap it, by means of respective electro-pneumatic drives. The mentioned electro-pneumatic drives of each tamper are pneumatic cylinders, preferably having an elliptical section.

IPC 8 full level  
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CPC (source: EP ES)  
**B65B 11/045** (2013.01 - ES); **B65B 13/06** (2013.01 - EP); **B65B 13/188** (2013.01 - EP); **B65B 13/32** (2013.01 - EP ES)

Citation (search report)

- [Y] GB 1522901 A 19780831 - FMC CORP
- [Y] DE 7636971 U1 19780831 - FMC CORP [US]
- [Y] US 2416859 A 19470304 - VINING WILLARD F, et al
- [Y] US 2004244607 A1 20041209 - CORBIN JOHN C [US], et al
- [A] GB 2048814 A 19801217 - NICHIRO KOGYO KK
- [A] US 3252408 A 19660524 - WINKLER ALVIN L

Cited by  
CN110576987A; EP3056438A1; IT201700001007A1

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