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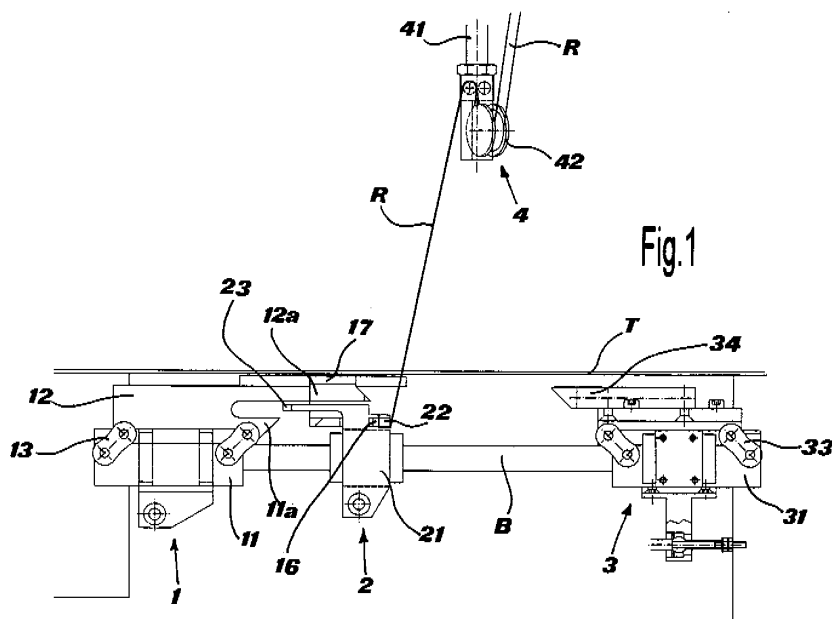
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(54) **Pile-strapping machine with straps made of weldable plastic material**

(57) A strapping system for a wrapping apparatus with a horizontal conveyor (T) is disclosed, of the type wherein a ring of plastic strap (R) is tightened around a travelling load to be wrapped (P), while the load moves along the conveyor. The strapping system comprises in particular a welding device for a plastic strap, wherein a

heated blade (34, 106) is arranged for a substantially longitudinal relative movement with respect to the strap (R) and wherein at least one pressure element (103, 12a) is further provided, arranged so as to impart a pressure in a movable operating position with respect to the strap flaps and which acts downstream of the operating position of the movable heating blade (34, 106).





EUROPEAN SEARCH REPORT

Application Number
EP 09 16 6843

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	EP 0 178 385 A (BUETTNER HANS HUGO) 23 April 1986 (1986-04-23) * the whole document *	1	INV. B29C65/20 B65B13/32
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A,D	WO 92/15486 A (MOSCA G MASCHF [DE]) 17 September 1992 (1992-09-17)	1	
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<p>The present search report has been drawn up for all claims</p>			
Place of search Munich		Date of completion of the search 16 November 2009	Examiner Ungureanu, Mirela
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p>			

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EPO FORM 1503 03.82 (P4/C01)



Application Number

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CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1,2-7

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number

EP 09 16 6843

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1,2-7

directed to a strapping apparatus with welding means
comprising a heated cursor with a special form

2. claims: 8-15

directed to a strapping machine, a welding method and a
device comprising a heated blade with a special position in
the device

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 09 16 6843

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

16-11-2009

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