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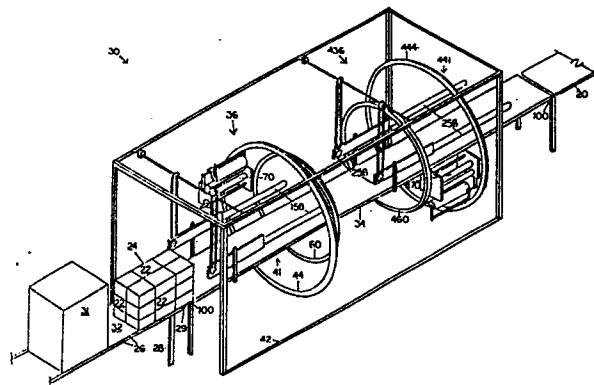
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⑤④ **A process and apparatus for making a unitary package by wrapping a load.**

⑤⑦ A process and apparatus for high speed continuous film web wrapping of uniform loads, in which a first wrap is applied in a first direction transverse to the path of the moving load and a second wrap is applied in a second direction opposite the first direction. This dual wrap nullifies the disabling effects of helical wrap bias when a single wrap is applied to a moving load, and produced a longitudinal containment force after film web recovery over time on leading and trailing ends of the load. In the apparatus (30) two wrapping stations (36, 436) are provided together with a wrapping conveyor assembly (32). Each station (36, 436) includes a dispensing rig (44, 444) on which a film roll and an elongation mechanism (70, 470) are mounted. The regulation of elongation in the elongation mechanism (70, 470) and the regulation of film supply speed from the elongation mechanism (70, 470) are independent of film demand speed at the load. The film web is stretched beyond its yield point at ambient temperature.





European Patent
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EUROPEAN SEARCH REPORT

0152959

Application number

EP 85 10 1958

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
E	EP-A-0 140 301 (B. HAGEMANN & CO.) * Claim 1; page 2, lines 7-12; page 5, lines 28-30; figure *	1,6	B 65 B 11/58
X	DE-A-2 303 590 (OY TRANSPAK AB) * Page 8, lines 1-11; figures 10,11 *	1	
Y		2-7,8,9-16	
Y	GB-A-2 076 772 (LANCASTER) * Page 3, lines 86-124; page 6, lines 45-65; page 7, lines 59-86; page 8, lines 5-45,81-89; figures 4,11,12,14,15 *	2-7,8,9-16	
A	GB-A- 820 866 (SHERIDAN SERVICE CO. LTD.) * Figure 3 *	9	
A	US-A-3 589 091 (CLOUD) * Column 1, lines 36-52 *	2	
A	US-A-4 050 220 (LANCASTER) * Column 4, lines 40-48 *	5	
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 05-08-1986	Examiner SCHELLE, J.
CATEGORY OF CITED DOCUMENTS 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 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			

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