

(12) UK Patent Application (19) GB (11) 2 405 374 (13) A

(43) Date of Printing by UK Office 02.03.2005

(21) Application No: **0425709.3**
(22) Date of Filing: **20.05.2003**
(30) Priority Data:
(31) **0211573** (32) **21.05.2002** (33) **GB**
(86) International Application Data:
PCT/GB2003/002158 En 20.05.2003
(87) International Publication Data:
WO2003/097341 En 27.11.2003

(51) INT CL⁷:
B31B 19/90 , B29C 65/18
(52) UK CL (Edition X):
B5D DSS1
(56) Documents Cited by ISA:
GB 2349603 A GB 1011722 A
WO 2000/050226 A DE 001230299 B
US 5102485 A US 4979933 A
US 4655862 A US 0369608 A
(58) Field of Search by ISA:
Other: **EPO-Internal**

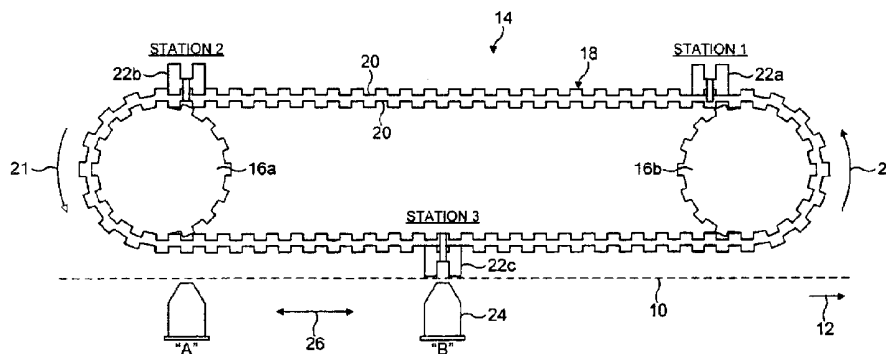
(71) Applicant(s):
Supreme Plastics Holdings Limited
(Incorporated in the United Kingdom)
Supreme House, 300 Regents Park Road,
LONDON, N3 3TL, United Kingdom

(72) Inventor(s):
Murray Edward Bruce Leighton

(continued on next page)

(54) Abstract Title: **Application of zippers to film material**

(57) The apparatus applies a transverse zipper strip to a film (10) moving continuously in a direction (12). A continuous belt (18) is driven by sprocket wheels (16a, 16b) and carries upper seal bars (22a, 22b, 22c) which receive pre-cut lengths of zipper at station (3). The pre-cut lengths are attached to the film (10) by a lower seal bar (24) which moves towards the film (12) at position A when an upper seal bar carrying a zipper strip is located directly above the film. Sealing takes place as the upper and lower seal bars move at the same speed as the film (12) from position A to position B where the zipper is released from the upper seal bar (22c). The process then repeats for the next zipper strip length.



GB 2 405 374 A

GB 2405374 A continuation

(74) Agent and/or Address for Service:
W P Thompson & Co
Eastcheap House, Central Approach,
LETCHEWORTH, Herts, SG6 3DS,
United Kingdom