



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
24.05.2000 Bulletin 2000/21

(51) Int. Cl.⁷: **B65H 19/29**, B65H 19/22,
B65H 19/26

(43) Date of publication A2:
10.05.2000 Bulletin 2000/19

(21) Application number: **00100364.9**

(22) Date of filing: **20.01.1993**

(84) Designated Contracting States:
DE ES FR GB IT

(30) Priority: **21.01.1992 US 823379**
21.01.1992 US 823665
21.01.1992 US 823961

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
96108947.1 / 0 733 571
93904507.6 / 0 620 799

(71) Applicant:
**MINNESOTA MINING AND MANUFACTURING
COMPANY**
St. Paul, Minnesota 55133-3427 (US)

(72) Inventors:

- **Ogren, Harvey D.**
Saint Paul, MN 55133-3427 (US)
- **Albrecht, James L.**
Saint Paul, MN 55133-3427 (US)
- **Volin, Leonhard M.**
Saint Paul, MN 55133-3427 (US)

(74) Representative:

Molyneaux, Martyn William
c/o Ladas & Parry,
52-54 High Holborn
London WC1V 6RR (GB)

(54) **Web winding system**

(57) A web winding system for winding adhesive backed web on cores mounted on wind-up spindles. The web is supported on a rotating suction drum. A knife mounted on a rotating wheel cuts the web against the supporting drum. A tab bar is mounted on the wheel adjacent to the knife, and applies a tab to the web in registration with the cut. In a second position of the wheel a

tab source moves toward the tab bar and applies a tab to its surface. The knife is heated by a heater to a temperature above adhesive softening and below adhesive carbonizing to prevent adhesive to stick to or to accumulate on the knife.

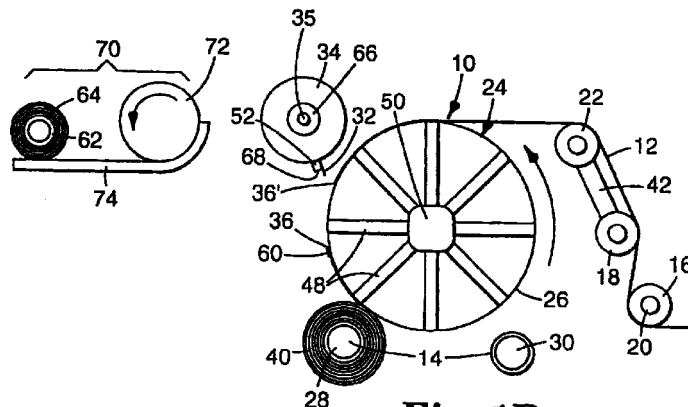


Fig. 1D



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 00 10 0364

| 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 ⁶) |
| Y | GB 1 207 080 A (SCOTT PAPER COMPANY) 30 September 1970 (1970-09-30) * claims 1,2; figures 2-5 * * page 5, line 80 - line 114 * | 1 | B65H19/29 B65H19/22 B65H19/26 |
| A | — | 3 | |
| Y | DE 29 23 559 A (DIENES WERKE FÜR MASCHINENTEILE GMBH & CO KG) 22 January 1981 (1981-01-22) * figures 1,2 * * page 2, line 6 - page 3, line 8 * | 1 | |
| A | NN.: "Creasing Mechanism" RESEARCH DISCLOSURE, vol. 249, January 1985 (1985-01), pages 77-79, XP002016127 EMSWORTH GB * the whole document * | 1,2 | |
| A | DE 32 17 628 A (FINANZIARIA LUCCHESI S.P.A.) 10 March 1983 (1983-03-10) * figures 1-6 * | 1 | TECHNICAL FIELDS SEARCHED (Int. CL ⁶) |
| A | FR 2 387 102 A (DIENES WERKE FÜR MASCHINENTEILE G.M.B.H. & CO. KG.) 10 November 1978 (1978-11-10) * claim 1; figure 1 * * page 1, line 24 - line 33 * * page 4, line 9 - line 18 * | 1 | B65H B26D |
| The present search report has been drawn up for all claims | | | |
| Place of search THE HAGUE | | Date of completion of the search 10 March 2000 | Examiner Haaken, W |
| <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</p> <p>& : member of the same patent family, corresponding document</p> | | | |

EPO FORM 1503 03.82 (P04001)

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

EP 00 10 0364

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.

10-03-2000

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
|--|------------------|-------------------------|------------------|
| GB 1207080 A | 30-09-1970 | BE 734439 A | 12-12-1969 |
| | | JP 49041543 B | 09-11-1974 |
| | | US 3552670 A | 05-01-1971 |
| DE 2923559 A | 22-01-1981 | NONE | |
| DE 3217628 A | 10-03-1983 | IT 1167967 B | 20-05-1987 |
| | | AT 380457 B | 26-05-1986 |
| | | AT 183682 A | 15-10-1985 |
| | | BR 8203209 A | 17-05-1983 |
| | | CA 1192532 A | 27-08-1985 |
| | | ES 512192 D | 16-10-1983 |
| | | ES 8308794 A | 16-12-1983 |
| | | GB 2105687 A, B | 30-03-1983 |
| | | IL 66348 A | 29-09-1985 |
| | | JP 1022186 B | 25-04-1989 |
| | | JP 1657529 C | 21-04-1992 |
| | | JP 58036846 A | 03-03-1983 |
| | | JP 1081746 A | 28-03-1989 |
| | | JP 1691889 C | 27-08-1992 |
| | | JP 3057011 B | 29-08-1991 |
| | | JP 1197258 A | 08-08-1989 |
| | | KR 8601208 B | 27-08-1986 |
| NL 8202066 A, B, | 16-03-1983 | | |
| NL 9500626 A, B, | 01-08-1995 | | |
| US 4487377 A | 11-12-1984 | | |
| FR 2387102 A | 10-11-1978 | DE 2716703 A | 19-10-1978 |
| | | ES 465642 A | 16-09-1978 |
| | | GB 1573858 A | 28-08-1980 |
| | | IT 1089674 B | 18-06-1985 |
| | | US 4161898 A | 24-07-1979 |