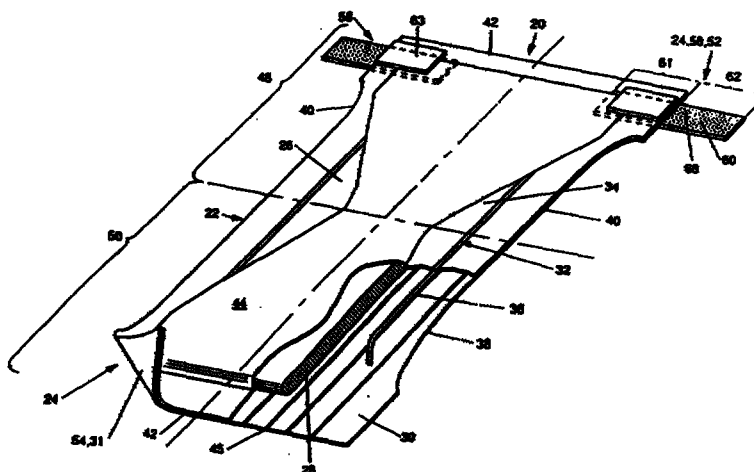




## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <b>(51) International Patent Classification 5 :</b><br><br><b>A61F 13/58</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>A1</b> | <b>(11) International Publication Number:</b> <b>WO 93/07845</b><br><br><b>(43) International Publication Date:</b> 29 April 1993 (29.04.93)                                                                                                                                                                                                                                                                                                                                                |
| <b>(21) International Application Number:</b> PCT/US92/08950<br><b>(22) International Filing Date:</b> 20 October 1992 (20.10.92)<br><br><b>(30) Priority data:</b><br>782,707                      25 October 1991 (25.10.91)      US<br><br><b>(71) Applicant:</b> THE PROCTER & GAMBLE COMPANY<br>[US/US]; One Procter & Gamble Plaza, Cincinnati, OH<br>45202 (US).<br><br><b>(72) Inventors:</b> BLANEY, Ted, Lee ; 7230 Jerry Drive, W. Ches-<br>ter, OH 45069 (US). CHISHOLM, M., Elizabeth, Priem<br>; 2514 Ridgecliff Avenue, Cincinnati, OH 45212 (US). |           | <b>(74) Agents:</b> REED, T. David et al.; The Procter & Gamble<br>Company, 5299 Spring Grove Avenue, Cincinnati, OH<br>45202 (US).<br><br><b>(81) Designated States:</b> AU, BB, BG, BR, CA, CS, FI, HU, JP,<br>KP, KR, LK, MG, MN, MW, NO, PL, RO, RU, SD, Eu-<br>ropean patent (AT, BE, CH, DE, DK, ES, FR, GB, GR,<br>IE, IT, LU, MC, NL, SE), OAPI patent (BF, BJ, CF,<br>CG, CI, CM, GA, GN, ML, MR, SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.</i> |

**(54) Title:** REFASTENABLE ADHESIVE FASTENING SYSTEMS FOR DISPOSABLE ABSORBENT ARTICLES



**(57) Abstract**

Disposable absorbent articles such as baby diapers or adult incontinent briefs provided with a refastenable adhesive fastening system. The adhesive fastening system preferably comprises a pair of tape tabs each having an adhesive surface which during use is adhered to a landing member having an adherence surface which may comprise only the backsheet that has no reinforcement for strength against tearing or may comprise a reinforced backsheet. The invention improves bond security while at the same time making the fastening system more easy to remove without tearing by careful optimization of the properties of the adhesive, the tape tab, and the landing member. In particular, it has been found that the adhesive fastening system should have a Standard Shear Hang Time of greater than about 1000 minutes per square inch. The surface characteristics, toughness, and elasticity modulus of the landing member is optimized while the adhesive aggressiveness (quick-stick) of the adhesive is optimized with preferred low coating weights of the adhesive and low calculated caliper for the landing member so as to provide an adhesive fastening system that bonds easily, holds securely and is refastenable.

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