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| (21) International Application Number: <b>PCT/SE96/00187</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  | (81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AZ, BY, KG, KZ, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). |                                                                |
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| (54) Title: WETTING INDICATOR FOR COMPOSITES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |
| (57) Abstract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |
| <p>The invention relates to a device for obtaining, in the manufacture of a high-strength composite, an indication that the reinforcement (1) of the composite has been wetted throughout by the matrix of the composite. The reinforcement at issue is of the type which mainly consists of threads or fibre bundles which do not become translucent/transparent when wetted by the matrix, for instance bundles of carbon fibres or aramide and the matrix of thermosetting plastic which is applied in liquid state in the manufacture according to, for instance, the technique of hand lay-up. The reinforcement includes indicating threads/bundles (4) which become translucent/transparent when wetted by the matrix. A good indication is obtained if the indicating threads/bundles have such properties that they become translucent only when the adjoining reinforcing material has been completely wetted throughout. Preferably, the indicating threads/bundles are uniformly distributed across the reinforcement and in an amount that does not affect the properties of the composite in an impermissible manner.</p> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                |