

Title (en)
Screw fastening device.

Title (de)
Schraubbefestigungsvorrichtung.

Title (fr)
Agrafe d'épinglage à vis.

Publication
EP 0076725 A1 19830413 (FR)

Application
EP 82401725 A 19820923

Priority
FR 8118309 A 19810929

Abstract (en)
1. A pin staple with screw comprising an outer body (6) carrying a central rotatably locked shank (9), a spring (8) between said body and a nut (11) on a threaded portion of said central shank which is, moreover, narrower in its terminal portion, a pair of staple branches (1 and 2) crimped in the other terminal portion of said central shank, a spreader (3) lying between said staple branches and an application washer (10) of the nut upon the spring, said staple being characterized in that the outer body (6) comprises a lower portion of plastics material (6b) and an upper metallic portion (6a) having an outer hexagonal socket head (6a) and an inner recess (16) therein as well as a threading (13) of the artillery type in its central area, said upper portion (6a) being axially fitted according to its central threaded area into the lower plastics portion (6b), whereby such fitting causes - in addition to the securement of both portions (6a and 6b) - immobilization of the branches (1 and 2) and of the spreader (3) by bringing into application the branches (3a and 3b) of the spreader, first against a first washer (14) located between the end of the upper portion (6a) and the inner bottom of the lower portion (6b), then against a second washer (15) located against the inner recess (16) in the upper portion (6a).

Abstract (fr)
L'invention se rapporte aux agrafes d'épinglage à vis telles que rencontrées dans l'industrie aéronautique et elle concerne, notamment, des particularités de ces agrafes propres à les rendre plus performantes. L'agrafe selon l'invention se caractérise en ce que le corps extérieur (6) comporte une partie inférieure en matière plastique (6 b) et une partie supérieure métallique (6 a) possédant une empreinte externe hexagonale et un décrochement interne (16) ainsi qu'un filetage (13) de type "artillerie" dans sa zone médiane, ladite partie supérieure (6 a) étant emmanchée axialement, selon sa région médiane filetée, dans la partie inférieure plastique (6 b) ce qui fait que cet emmanchement produit, outre l'assujettissement des deux parties (6 a et 6 b), l'immobilisation des branches (1 et 2) et de l'écarteur (3). L'invention s'applique plus particulièrement au domaine de l'industrie aéronautique.

IPC 1-7
B25B 31/00

IPC 8 full level
B25B 27/08 (2006.01); **B25B 31/00** (2006.01)

CPC (source: EP)
B25B 31/005 (2013.01)

Citation (search report)
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• [A] FR 1491450 A 19670811
• [AD] FR 1433662 A 19660401 - BAYSWATER MOTORS LTD, et al

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EP 0076725 A1 19830413; EP 0076725 B1 19850320; CA 1204309 A 19860513; DE 3262690 D1 19850425; FR 2513708 A1 19830401; FR 2513708 B1 19840106; IL 66859 A0 19821231; IL 66859 A 19861231; JP S5866674 A 19830420

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EP 82401725 A 19820923; CA 412461 A 19820929; DE 3262690 T 19820923; FR 8118309 A 19810929; IL 6685982 A 19820924; JP 16946182 A 19820928