

Title (en)  
Harness crossover system.

Title (de)  
Kreuzungssystem für Kabelbäume.

Title (fr)  
Système de croisement pour faisceaux de câbles.

Publication  
**EP 0427500 B1 19940720 (EN)**

Application  
**EP 90312113 A 19901106**

Priority  
GB 8925001 A 19891106

Abstract (en)  
[origin: EP0427500A2] Apparatus for changing the order of wires in an array of wires being assembled into an electrical harness consisting of an auxiliary gripper 250 for individually gripping the ends of wires projecting from a guide 203A and a crossover gripper 252 for withdrawing a wire from the auxiliary gripper and the guide and locating it in a different wire position in the auxiliary gripper and guide. To allow for changing over wire a second crossover gripper 256 is provided each crossover gripper preferably having an associated tip gripper 254, 258 to guard against wire curl.

IPC 1-7  
**H01R 43/28**; **H01R 43/20**

IPC 8 full level  
**B23P 21/00** (2006.01); **H01B 7/00** (2006.01); **H01B 13/00** (2006.01); **H01B 13/012** (2006.01); **H01R 43/00** (2006.01); **H01R 43/28** (2006.01)

CPC (source: EP)  
**H01R 43/28** (2013.01)

Cited by  
US5471741A

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0427500 A2 19910515**; **EP 0427500 A3 19910911**; **EP 0427500 B1 19940720**; DE 69010839 D1 19940825; DE 69010839 T2 19950309; GB 8925001 D0 19891228; JP H03156810 A 19910704; JP H0770262 B2 19950731

DOCDB simple family (application)  
**EP 90312113 A 19901106**; DE 69010839 T 19901106; GB 8925001 A 19891106; JP 23976790 A 19900910