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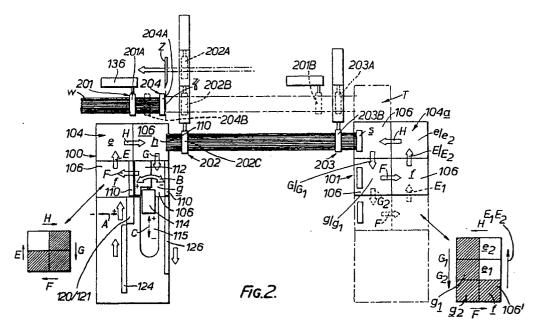
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Harness crossover system.

(a) 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.





EUROPEAN SEARCH REPORT

EP 90 31 2113

		with indication, where appropriate,	Relevant	CLASSIFICATION OF THE
tegory	of re	elevant passages	to claim	APPLICATION (Int. CI.5)
Α	WO-A-8 907 850 (AMP INCORPORATED) * page 2, line 11 - page 3, line 34; figures 1-8, 21-25 *		1-4	H 01 R 43/28 H 01 R 43/20
Α	EP-A-0 105 648 (AMP INCORPORATED) * page 1, line 24 - page 2, line 32; figures 13-17 *		1-4	
A	FOERDERUNG DER ANG	ENHOFER-GESELLSCHAFT ZUF EWANDTEN FORSCHUNG E.V. page 8, last paragraph; figures		TECHNICAL FIELDS SEARCHED (Int. CI.5) H 01 R H 05 K
	The present search report has	s been drawn up for all claims		
Place of search Date of completion of search		'	Examiner	
	The Hague 10 July 91			CRIQUI J.J.

- document of the same catagory

 A: technological background

 O: non-written disclosure

- P: intermediate document
- $\ensuremath{\mathsf{T}}$: theory or principle underlying the invention

- L: document cited for other reasons
- &: member of the same patent family, corresponding document