The present invention relates to a wire-bending device and, more particularly, to a jig for bending a wire coat hanger to provide a modified hanger finding utility as a hanger for children's garments. More specifically, this invention pertains to a simple and effective jig by means of which a conventional wire hanger of the conventional type may be simply and readily converted to a children's coat hanger or garment hanger having shortened shoulders and a shortened crossbar.

Also included within the scope of this invention are methods of fabricating the improved wire bending jig and the method of its use.

There has been a long felt need for a simple device by means of which a conventional wire hanger might be converted to a hanger more suited for use with children's garments. It is the aim of the present invention to provide such a device, to teach a simple method for its use, and to fabricate a garment hanger having specific utility for the purpose intended.

It is a principal object of the invention to provide a wire-bending jig which may be simply clamped in position and which may then be used without the necessity for auxiliary tools.

A further object is to provide a bending device in which the coat hanger may be re-formed by an amateur to achieve consistently reproducible results.

A more detailed object of the invention is to provide a improved wire bending device combining simplicity of operation with reliability of structure. The required reforming of a conventional wire hanger may be readily achieved by an amateur with a high degree of reproducibility and precision. Little or no special skill is required in operating the device and the invention is uniquely suited for use by home mechanics. From the preceding description taken in connection with the accompanying drawings, the advantages of the construction and use of the device will be readily understood.

While disclosures of preferred embodiments of the device and of preferred methods for assembly and utilization thereof are provided, it is understood that numerous modifications and variations thereof may be made without departing from underlying principles of the invention. It is, therefore, desired by the follow-
What is claimed:

1. A wire bending jig adapted for shaping a one-piece wire garment hanger of an originally generally triangular configuration and including shoulder supporting bars and a cross bar to provide a shortened cross bar and shoulders carrying integral inwardly extending and opening loop portions below said cross bar at opposed ends thereof, said jig comprising:
   a block-like base;
   a forming post supported on said base;
   said post having a circumferential, annular, wire-receiving groove therearound and extending radially inwardly of a peripheral lateral surface of said post; said groove being adapted to receive and retain laterally superimposed incremental lengths of wire of said shoulder supporting bars and said cross bar during a wire loop forming operation wherein said hanger is bent upon itself to form a bight portion and an inwardly opening double wire hook below and spaced from said cross bar;
   a wire loop anchoring pin embedded in said base and stabilized to resist lateral tipping forces applied thereto;
   said pin extending upwardly of said base adjacent the periphery of said forming post and transversely of a plane defined by said annular groove of said forming post;
   said pin being adapted to receive a corner of said hanger thereabout and to retain said corner in fixed position during forming of said loop portions of said hanger in said annular groove about said forming post.

2. The wire bending jig of claim 1 wherein a peripheral sector of said post adjacent said pin and above a plane defined by said annular wire-receiving groove is cut away to facilitate positioning of said corner of said hanger about said anchoring pin and placement of said wire in said groove and removal therefrom.

3. The method of reforming a conventional one-piece wire hanger of a generally triangular configuration and having a pair of sloping shoulders joined by a horizontal base therebelow to provide a child's coat hanger having shortened shoulders and a shortened base, said method comprising the steps of:
   - securing a wire-bending jig against rotational movement in response to annular forces applied thereto during a wire forming operation;
   - anchoring a corner of said wire hanger defined by a shoulder and said base of said hanger over and against an anchor pin embedded in said jig;
   - inserting said base of said hanger radially into an annular groove of a forming post of said jig;
   - rotating said hanger about said anchor pin to introduce increasing lengths of said base and a shoulder of said hanger into said groove to provide an inwardly opening double wire hook below said base of said hanger and adjacent a lateral end thereof to shorten said shoulder and said base of said hanger.

References Cited by the Examiner

UNITED STATES PATENTS

337,006  2/1886 Mahon 140—82

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