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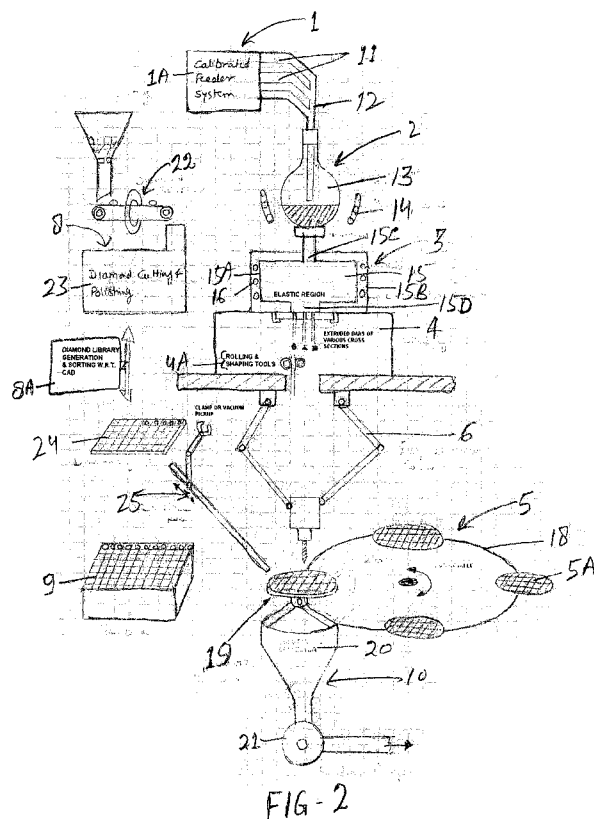
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[Continued on next page]

(54) Title: AN AUTOMATIC METHOD AND DEVICE TO MANUFACTURE JEWELRY



(57) Abstract: An automatic method and device to manufacture jewelry is disclosed. Pre-calibrated metal is fed into metal melting means with the help calibrated metal feeding means. The molten metal is then conveyed to an extrusion chamber provided to facilitate extrusion of the metal into the shapes of the required cross sections by selecting and using extrusion grids. The metal crystals are marked with the identifying means during crystallization. The extruded metal is then conveyed to shaping and metal forming chamber so as to form parts needed to manufacture the jewelry. Filing and machining the formed parts / motifs is done with the help of different tools and computer aided instructions. The stones are evaluated and then subjected to the steps of cutting and polishing to get stone in the finished form for use in jewelry such that to provide maximum brilliance of the stone. The parts / designed motifs are then assembled and soldered to get the designed piece of the jewelry. The metal dust and stone shavings are collected separate by refining means so as to recycle the metal and to obtain stone shavings for use in the beauty enhancing products (FIG. 2).

**Declarations under Rule 4.17:**

- as to the identity of the inventor (Rule 4.17(i))
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

— of inventorship (Rule 4.17(iv))

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

INV. A44C27/00 B22D25/02 B24B9/16
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A44C B24B B22D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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INTERNATIONAL SEARCH REPORT

International application No

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