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(57) Abstract :
A modular welding torch, comprising an inductive proximity sensor 1 arranged on a welding torch 2 to detect the type of metal of a work piece, a strain gauge sensor 3 for determining strength of the work piece, wherein a microcontroller analyses metal type and strength of the work piece and generates a command, at least two cylinders 4 in combination with multiple pipes 5 employed for storing fuel and oxygen gas separately, wherein the gases pass through the pipes 5 for producing a flame to assist in cutting and/or welding, a control panel 8 for displaying the detected metal type and strength of the piece as well as the amount of gas required for producing an ideal flame to carry out the welding and/or cutting, a valve 9 that actuates automatically in accordance to the detected strength and metal type for carrying out the welding and/or cutting effortlessly. Ref. Figure to Figure 1

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