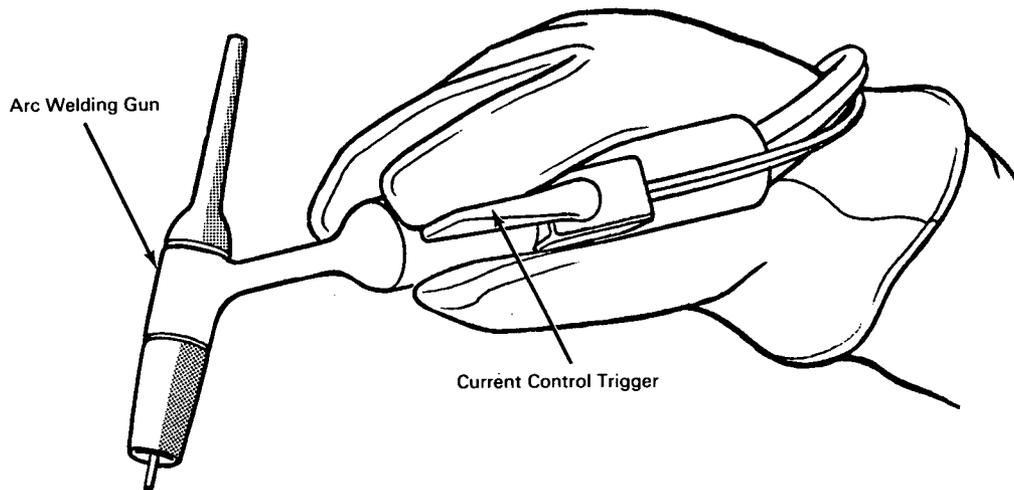


NASA TECH BRIEF



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Fingertip Current Control Facilitates Use of Arc Welding Gun



The problem:

To devise a sensitive trigger for accurately controlling the current supplied to an arc welding gun. Pedal devices that have been used for controlling arc current cannot be operated with sufficient precision by foot pressure. These devices are also inconvenient or impossible to use in confined areas.

The solution:

A fingertip-operated current control trigger mounted directly on the handle of the welding gun.

How it's done:

A spring-loaded trigger connected to a rheostat is mounted on the handle of the arc welding gun. Depression of the trigger with the index finger controls a remote transistorized amplifier circuit that regulates the current supply to the welding electrode.

Notes:

1. This device is in the conceptual stage only. Neither a model nor a prototype has been built as of the date of this Tech Brief.
2. Inquiries concerning this innovation may be directed to:

Technology Utilization Officer
Manned Spacecraft Center
P.O. Box 1537
Houston, Texas, 77001
Reference: B66-10092

Patent status:

No patent action is contemplated by NASA.

Source: Benjamin Roth of
North American Aviation, Inc.
under contract to
Manned Spacecraft Center
(MSC-289)
Category 05