

Thanks are due to the Manley Foundation which helped to finance this reprint; to Bruce Tippery who gave essential help with its production; and also to Andy Hopkins whose similar and independent desire to reprint this book is hereby fulfilled.

This reprint has been made as an exact photographic duplicate of Thomas Jefferson's personal copy.

This reprint is dedicated to my wife, Laurelee, whose death in November 1988 delayed it for these past two years, but whose life caused me to undertake it.

As Isaac Newton wrote in the second edition of the *Principia*:

"The true God is a living, intelligent, and powerful being. His duration reaches from eternity to eternity; His presence from infinity to infinity. He governs all things."

Arthur B. Robinson
Cave Junction
July 1991

PLYWOOD SHELTER VENTILATION PUMP

Visitors to the shelters here usually take time to examine the plywood double-action piston pump that Cresson Kearny brought here during the *Nuclear War Survival Skills* video tape project. On the video tapes, he demonstrates the pump twice - once in the yard with a plastic bag and once in a mine tunnel ventilation system.

Since the pump is made of plywood and is a part of the expedient civil defense procedures described in *Nuclear War Survival Skills*, there is a tendency for those who have not examined the actual pump and its air filter to think of it as an expedient device not meant for permanent shelter installations.

The most frequent question that I am asked by people building permanent shelters is about a source of an air pump for their shelter. Only a few are able to afford a LUWA ventilation system. Most people want a much less expensive alternative. They usually are looking for a reliable handcranked blower.

The remarkable fact is that the most reliable and easily operated shelter ventilation pump available in the United States is the plywood double-action piston pump. Moreover, materials with which to make the pump are so inexpensive as to be almost negligible. In addition, if anything should go wrong with the pump, repairs can be made with simple materials and tools that are universally available.