

Enjoy the World's Finest
TECHNICAL TRAINING IN AVIATION
 and Earn While You Prepare for a Career in the U.S. Air Force



ILLUSTRATION F-80 SHOOTING STAR

Scientific aptitude tests help direct you to use your talents most effectively. Earn good pay right on the job as you learn under skilled experts. If you can qualify you may go to an Air Force technical school for training in one of the many great career fields. Enjoy new opportunities for education, experience, advancement. Ask about the new Airman Career Program today.



VISIT YOUR NEAREST AIR FORCE BASE OR U.S. ARMY AND U. S. AIR FORCE RECRUITING STATION

U. S. AIR FORCE



- Choose Your Opportunities from many **AIRMAN CAREER FIELDS**
- RADIO AND RADAR MAINTENANCE
 - AIRCRAFT AND ENGINE MAINTENANCE
 - AIRCRAFT ACCESSORIES MAINTENANCE
 - WEATHER
 - ARMAMENT SYSTEMS
 - FOOD SERVICE
 - TRAINING DEVICES MAINTENANCE
 - PHOTOGRAPHIC
 - AIR TRAFFIC CONTROL AND WARNING
 - WIRE MAINTENANCE
 - MISSILE GUIDANCE SYSTEMS
 - COMMUNICATIONS OPERATIONS
 - PHOTOMAPPING
 - INTRICATE EQUIPMENT MAINTENANCE
 - INTELLIGENCE ROCKET PROPULSION
 - MUNITIONS AND WEAPONS SUPPLY
 - VEHICLE MAINTENANCE PRINTING
 - METAL WORKING TRANSPORTATION
 - FABRIC LEATHER AND RUBBER
 - PROCUREMENT ADMINISTRATIVE
 - PERSONNEL EDUCATION MEDICAL
 - ENTERTAINMENT MANAGEMENT METHODS
 - BUDGETARY ACCOUNTING AND DISBURSING
 - STATISTICAL AND MACHINE ACCOUNTING
 - GROUND SAFETY MARINE FIREFIGHTING
 - SECURITY AND LAW ENFORCEMENT

POPULAR MECHANICS

Popular Mechanics Magazine

Registered in U. S. Patent Office and Canada

H. H. WINDSOR, Founder

H. H. WINDSOR, JR., Editor and Publisher

Volume 93 APRIL 1950 Number 4

Managing Editor.....Roderick M. Grant
 Assistant Managing Editor.....Wayne Whittaker
 Shop Notes and Crafts Editor.....James R. Ward
 Radio-Television, Electronics Editor.....Frank L. Brittin
 Associate Editor, Aviation.....Aubrey O. Cookman, Jr.
 Associate Editor.....Clifford B. Hicks
 Art Director.....Frank Beatty
 Director, Bureau of Information.....Allan Carpenter

Assistant Editors
 Donald R. Brooks Dorothy E. Hoffmann Arthur R. Railton
 H. H. Windsor III

Assistant Editors, Shop Notes and Crafts
 W. Clyde Lamme Wayne C. Leckey Frank N. Stephany A. E. Youngquist
 Eastern Editor.....Richard F. Dempewolf
 Empire State Bldg., Room 2906, New York 1, N. Y.

Western Editor.....Thomas E. Stimson, Jr.
 3872 Franklin Ave., Los Angeles 27, Calif.

Representative in Great Britain.....Douglas W. Wedderspoon
 77 Baker St., London W. 1, England



this month's cover

ONCE UPON a time the King of Sweden asked Paul Bunyan to clear all the timber off the state of North Dakota to make room for all the good Swedish farmers. Paul cut the logs out at a rate of a million feet an hour and stomped all the stumps into the ground. When the farmers came across they found a mighty clean piece o' dirt waiting for them. There never has been another lumberjack as mighty as Paul, but that big logger on our cover rates a close second. Biggest thing in the woods today, it can flip 30-ton logs through the air like matchsticks or jerk a 90,000-pound log straight up out of a crevasse. The job done, it waddles off under its own power like Paul Bunyan hiking the timber trails in search of a new task. Artist Lou Nulsen, who has studied logging operations at close range, depicted the behemoth on our cover, and you'll find more views of the logger on page 130

Published monthly by Popular Mechanics Company, 200 E. Ontario St., Chicago 11, Ill. H. H. Windsor, Jr., president; William Harrison Petridge, vice president; D. F. Windsor, vice president and secretary-treasurer; Clover L. Perkins, advertising manager; Alan M. Devoe, circulation manager. Single copy in the United States and Canada, 35 cents; subscription rates in United States and possessions, Canada, Philippines and countries of the Pan-American Postal Union, 1 year, \$3.50; 2 years, \$6.00; 3 years \$8.00. To all other countries add \$1.00 a year over United States prices for overseas postage. If you plan to move, notify us at least 30 days in advance so you will not miss an issue. Give both old and new addresses. Entered as Second Class Matter, September 15, 1903, at the Post Office at Chicago, Illinois, under Act of March 3, 1879. Entered as Second Class Matter at Post Office Dept., Canada. Copyright 1950 by Popular Mechanics Company. Copyright under International Copyright Union. Copyright in France. All rights reserved under Pan-American Copyright Union. Printed in the United States of America.

IN THIS ISSUE

They Stumbled on Success	81
You Think You're Going Crazy	88
Hall of a Thousand Illusions	97
Thunder in a New Package	110
Small Town Television	114
What's New for Your Home	118
Are We Running Dry?	122
Radio Up Your Sleeve	133
Shooting the Grand Canyon in a Power Boat	144
Commute by Jet	149
Back-Packing in the Mountains	161
New Machines Fight for Your Health	166

For the Craftsman

"New Look" in Garden Furniture	174
What to Do About Clogged Drains	188
Moving-Day Pointers	201
Pour Your Own Flagstone Walk	206
Use the Right Abrasive—Part I	213
Keeping Handsaws Sharp	222
Nine Speeds Forward for Your Bicycle	226
Radio-Television, Electronics	229
Clinic for Homemakers	240

Other items, and manufacturers of available products described, are listed on pages 10, 12 and 14

APRIL 1950

ANC



POPULAR MECHANICS

MAGAZINE

WRITTEN SO YOU CAN UNDERST

REG'D. TRADE MARK, GREAT BRITAIN, No. 410426

REG. U.S. PAT. OFF.

**HEAVYWEIGHT
CHAMPION LOGGER**

Page 130



 MeretMart.com
Vintage Magazines for Special People