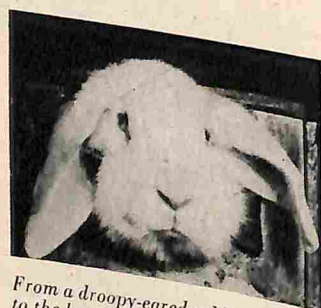


# Popular Science Monthly

May, 1957



## AUTOMOBILE NEWS

- Why You Can't Outrun the Police · 51  
 What's New in Car Air Conditioners · 67  
 Gunshot Brakes for Runaway Trucks · 78  
 Complete Tear-Out Booklet:  
 "How to Buy a New Car" · 83  
 What Smart Tire Buyers Should Know · 136

## WORLD OF SCIENCE AND INDUSTRY

- Tiny Sub Maneuvers Like a Plane · 64  
 How They Make 10 Million Screws a Day · 72  
 Man-Made Material Is Hard as Diamond · 76  
 These Cameras Make Time Stand Still · 80  
 Island Outposts Track Missiles · 122

## THE NEWS IN PICTURES

- Atomic Energy Vulcanizes Tire · 99  
 Enzyme Shot Wilts Rabbit's Ears · 100  
 TV Eyes Atomic Reactor at Work · 102  
 Hitchhiking Missile Launched in Air · 104  
 Running Boards? Ike Has 'Em · 106  
 Pint-Size Raft Will Keep Baby Afloat · 108  
 Tiny Wires Do Work of Transistors · 109  
 Rescue Ship Totes Lifeboat Piggyback · 111  
 Starfighter "Twin" Has Dual Cockpit · 113  
 New Nike Can Carry Atomic Warhead · 114

Managing Editor  
 HOWARD ALLAWAY

Associate Managing Editor  
 Frank Rowsome Jr.

Assistant Managing Editors  
 Kendall W. Goodwyn  
 Wesley S. Griswold  
 Robert P. Stevenson

Senior Editors  
 Devon Francis  
 Martin Mann  
 Everett H. Orner  
 Harry Walton

2 POPULAR SCIENCE

Associate Editors  
 Erik H. Arctander  
 Alden P. Armagnac  
 Henry B. Comstock  
 Frank Dorr  
 Sheldon M. Gallager  
 William Gilman  
 Herbert O. Johansen  
 Herbert R. Pfister  
 Maryann Smith  
 Ruth Westphal

Editorial Assistants  
 Rosa Lee Beeland (Chief)  
 Annette Krauss (Research)  
 Anna Dallas, Bebe Lipson,  
 Roberta Marks, Georgetown

Art Director  
 HOWARD C. JENSEN

Art Editors  
 Herbert Anthony  
 Harry Samuels

Art Associates  
 Robert W. Blinn  
 Eric A. Karminski Jr.  
 Henry W. Kazmirowski  
 Adolph J. Le Mout  
 Dana B. Rasmussen

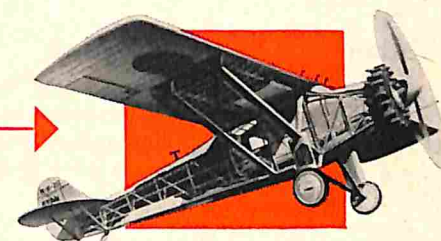
Photography

W. Morris (Chief)  
 Robert Lucken  
 Orlando Guech

America's Leading New-Idea Magazine for 85 Years

## SPECIAL FEATURES

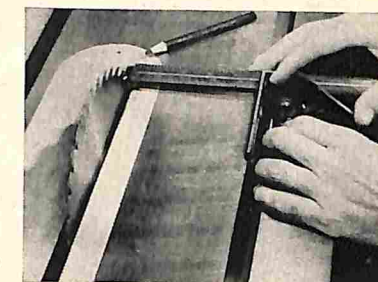
- Lindbergh's Amazing Airplane · 56  
 Is Your Child a Budding Scientist? · 60  
 What Will You Die Of? · 115  
 Gus Tackles an Antique · 124



The inside story of the plane that flew into history, just 30 years ago this month

## FOR HOME AND SHOP

- The Secrets of Masonry Cutting · 131  
 10 Painting Tips · 135  
 Which Type of Driveway for You? · 141  
 PS Fix-It File: Toilet Tanks · 147  
 Why TV Tuners Get Temperamental · 149  
 The Truth About "Plastic" Paints · 154  
 Building a Vacation Cargo Carrier · 158  
 Setting Up a Saw for Accurate Cuts · 163  
 115 Volts Under the Hood · 169  
 He Grills Hot Dogs on Solar Cooker · 178  
 New Angle Pays Off on Old Angle Jig · 182



Are you getting the precision out of your table saw that was built into it? An expert tells you how

## WHAT'S NEW IN ...

- Keeping the Home Shipshape · 12  
 Ideas from the Inventors · 119  
 Hints from the Model Garage · 128  
 Aids to Modern Living · 130  
 Car Accessories · 140  
 Tools for Your Shop · 153  
 Handyman Products · 162

## EVERY MONTH ...

- PS Readers Talk Back · 4  
 Prize Projects by PS Readers · 14  
 I'd Like to See Them Make · 16  
 You Ought to Know · 19  
 PS Shop Notebook · 172  
 Wordless Workshop · 174  
 Short Cuts and Tips · 223

Publisher  
 RALPH H. FLYNN

Advertising Manager  
 LEE P. ADAMS

Circulation Director  
 EUGENE WATSON

EDITORIAL OFFICES:  
 353 Fourth Ave., New York 10, N.Y.

ADVERTISING OFFICES:  
 NEW YORK—353 Fourth Ave.  
 CHICAGO—360 North Michigan Ave.  
 DETROIT—820 Book Bldg.  
 SAN FRANCISCO—114 Sansome St.  
 CLEVELAND—636 B. F. Keith Bldg.  
 LOS ANGELES—1127 Wilshire Blvd.  
 PORTLAND, ORE.—520 S.W. Sixth Ave.

Published monthly at 353 Fourth Avenue, New York 10, N. Y., by Popular Science Publishing Co., Inc., Godfrey Hammond, Chairman of the Board; Ralph H. Flynn, President and Treasurer; Franklin E. Parker Jr., Secretary; Eugene Watson, Vice-President. Second-class mail privileges

authorized at New York, N. Y., and Dayton, Ohio. Entered as second-class matter at the Post Office Department, Canada. Printed in U.S.A. Copyright, 1957, by Popular Science Publishing Co., Inc. All rights reserved in the United States, Great Britain, and in all the countries participating in the International Copyright Convention and Pan-American Copyright Convention. Single copy 35¢. Subscriptions to United States, its possessions, and Canada, 1 year \$3.40 (2 years \$6.00, 3 years \$8.00). Elsewhere, 1 year \$6.00 (2 years \$11.00, 3 years \$16.00). Four weeks' notice is needed to change a subscriber's address. Please give both old and new addresses, including postal zone numbers.



# POPULAR SCIENCE

57

MAY • 35c

Monthly



**Why You  
Can't Outrun  
the Police**

**Inside — Special Booklet:**

**"How to Buy  
a New Car"**