

## INVENTION

# Patents of the Week

The designer of the famous German Messerschmitt fighter aircraft used during World War II has now invented and patented a jet-powered vertical take-off airplane.

► THE DESIGNER of the famed Messerschmitt fighters that downed so many Allied airplanes during World War II was granted a U.S. patent for a jet-powered vertical take-off airplane.

The power unit is divided into two or more equal parts so that the jet output does not interfere with carrying a load in a fuselage suspended under the unit.

Willy Messerschmitt of Munich, Germany, was granted patent 3,065,936 for such an airplane capable of making a vertical take-off by jet propulsion. He assigned rights to Messerschmitt AG, Augsburg, Germany.

A large proportion of all German fighter aircraft during World War II were of Messerschmitt design, including the first jet plane to be flown in combat, the Me-262.

## Drugs for Hypertension

Three patents were granted for drugs related to those used to treat high blood pressure. For certain esters of protoverine, Dr. S. Morris Kupchan of the University of Wisconsin received patents 3,066,142 through 3,066,144, rights to which he assigned to the Wisconsin Alumni Research Foundation, Madison.

The esters Dr. Kupchan patented are related to protoverine 3,6,15-triisobutyrate 7-acetate. One problem in the use of such compounds is that they can make those treated with them sick if the dosage is not carefully controlled.

## Tree Seat for Hunters

To make life more comfortable for hunters hiding in trees, Raymond E. Hundley Jr. of Eagle Rock, Va., in the Appalachian Mountains, has devised a tree stand and seat. It is portable and collapsible, and can be strapped to a hunter's back.

Mr. Hundley received patent 3,065,821 for his invention.

## Golf Putting Glove

Another sportsman's device, granted patent 3,065,472, is a golf putting glove designed to give the proper grip throughout the putting stroke. The glove has a holder in the palm through which the putter is fitted at the correct angle to maintain the face of the putter squarely on the face of the ball.

Richard E. Linnell of Minneapolis, Minn., suggests that using his device enables a golfer to putt with a greater degree of accuracy than without it.

## Shipboard Missile Launcher

A method for stowing guided missiles vertically so that they can be easily hoisted into position for launching or firing was

granted patent 3,065,673. Ralph H. Hereth of Port Orchard, Wash., assigned rights to the Government through the Secretary of the Navy.

With Omer R. Butterfield, also of Port Orchard, Mr. Hereth also received patent 3,065,674, similarly assigned, for a hydraulic method of lifting supersonic surface-to-air weapons into place.

## Other Significant Patents:

An apparatus for making enlarged prints from transparencies, such as 35-millimeter color or black-and-white transparencies. Dr. Harold E. Edgerton of Belmont, Mass., assigned rights to patent 3,065,667 to Edgerton, Germeshausen & Grier, Inc., Boston.

Methods and instruments for surveying in detail the sediments lying on the ocean floor. Dr. John B. Hersey of Woods Hole Oceanographic Institution, Woods Hole, Mass., an expert in seismic exploration of the oceanic crust, received patent 3,065,815 for his method of surveying water-covered areas, rights to which he granted to the Woods Hole institution.

A protective cover for note pads or books, for which William A. Stephens of Pikeville, Tenn., received patent 3,065,978. The covering has a glove into which the hand is inserted, thus allowing someone to write on a note pad or bill without getting the paper dirty or wet.

A map holder and magnifying device specifically designed for helping a motorist read a highway map. Charles W. Leybourn of Petersburg, Mich., and George W. Gensler of Toledo, Ohio, assigned rights to patent 3,065,668 to Leybourn Specialties, Inc., Toledo.

A simple method of identifying echoes on radars of the moving target type, for which Henry William Vogtmann of South Bend, Ind., was granted patent 3,066,288. Rights were assigned to The Bendix Corporation.

• Science News Letter, 82:391 December 15, 1962

## Do You Know?

*Selenium*, in its biologically active form, can replace vitamin E in the prevention of certain deficiency symptoms in animals.

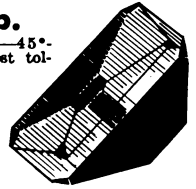
Guinea pigs exposed to oxygen-poor atmosphere in a study developed an entirely new supply of blood vessels to feed the heart.

*Polypropylene* is unique among organic fibers because it is devoid of the chemical structures by which dyes are normally fixed.

• Science News Letter, 82:391 December 15, 1962

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