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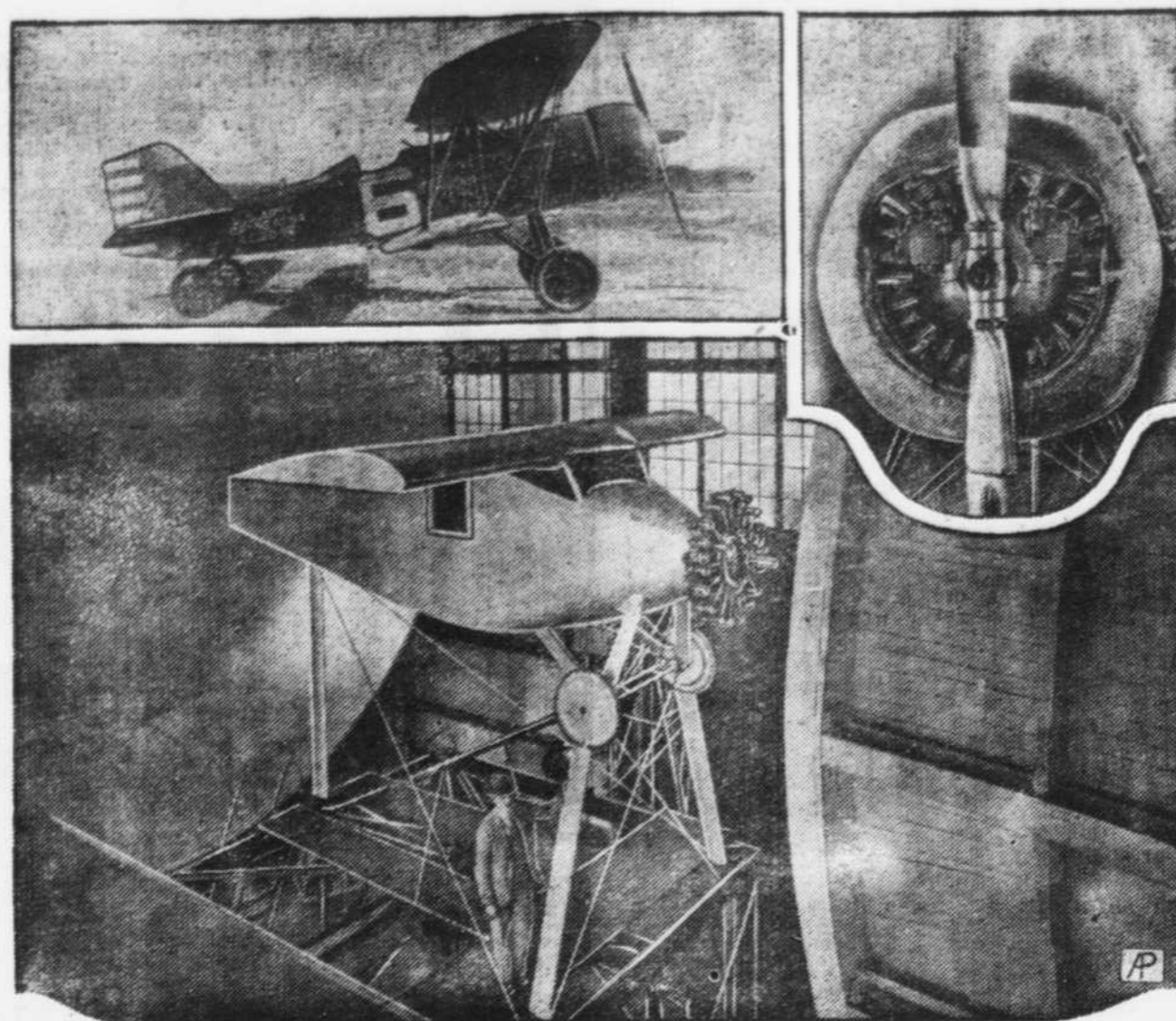
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## Intricate Study Produces Simple Cowling



Experiments by the scientific staff of the National Advisory Committee for Aeronautics in the 20-foot wind tunnel (below) at Langley Field, Va., have resulted in development of a new cowling for radial air-cooled engines which increases the speed and flying qualities of airplanes at small cost. The flow of cooling air is controlled from the time it enters an opening at the front (upper right) until it flows smoothly out at the rear of the cowling around the fuselage (upper left).

By **COLEMAN B. JONES**  
(Associated Press Science Editor)  
LANGLEY FIELD, Va., Nov. 20. (AP)—The new cowling for radial air-cooled engines devised here in the Langley Memorial laboratory of the national advisory committee for aeronautics gives little indication, in its simplicity, of the intricate problems its development involves.

The new cowling provides, for the first time, an efficient means for covering the air-cooled engine in such a manner that, while it is provided with sufficient air to keep it from overheating, the resistance it offers to the wind in flight is radically reduced. The effect is to increase the speed of a plane greatly without additional power, and to improve its flying qualities in smoothness of operation.

The device is a combination of two forms of cowling worked out during the investigation. Inside, a little less than half of each cylinder and the crank-case are covered, leaving the tops of the cylinders jutting out. These are then covered with a sheet of metal shaped like a halved egg shell and having a hole at the front to provide space for the propeller shaft and the admission of air. The air

taken in through that hole is deflected between the cylinders to reduce turbulence and at the same time cool them, and is directed so that it flows out at the rear of the cowling in a smooth layer around the fuselage.

To attain this result, a number of experiments and exact measurements were necessary which had never been possible until the laboratory's 20-foot wind tunnel was completed early this year.

With a full size, single engine cabin fuselage set up in this tunnel, facing a stream of air moving toward it at a velocity of 110 miles an hour just as if it were in flight, various degrees of cowling for the engine were installed and studied, ranging from entirely exposed to completely covered cylinders.

Temperature measurements were made at 69 different points on the engine during the experiments and then each test cowling was cut away and altered until the measurements showed that it was allowing the engine to cool properly under the most arduous conditions of flight. The effects of each cowling on the drag of the plane and the propulsive efficiency of the propeller also were measured

at the different stages of alteration.

While these experiments were in progress, it was discovered that the air resistance of the fuselage itself could be reduced by making it more nearly round than the conventional form, and when the net results were put together, it was demonstrated that the design finally adopted reduced the drag 2.6 times as much as the most effective form ever before used.

A Curtiss airplane pursuit training plane equipped with the same type of Wright Whirlwind engine used in the experiments and with its fuselage rounded and the new cowling installed, was used for the actual flight tests.

The maximum speed of this plane, it was found, was raised from 118 to 137 miles an hour with the engine turning over at 1,900 revolutions a minute, which without the cowling would have required an additional 63 horsepower to accomplish. It was also disclosed that the 118-mile speed could be attained at only 1,720 revolutions a minute instead of 1,900, which was estimated to represent a saving of three gallons of gasoline for each hour of flight at that engine speed.

## Mighty Fleet Of U. S. Warships To Make South American Cruise

WASHINGTON, Nov. 20. (AP)—One hundred and twenty-five of the United States' mightiest war-craft will roll down the west coast of South America to Callao and Valparaiso next February.

The great United States fleet, commanded by Admiral H. A. Wiley is scheduled to sail from Balboa Canal Zone, after the annual fleet concentration February 21, the plans being dependent upon diplomatic exchanges with the governments over the use of Peruvian and Chilean ports.

As the cruise is a test of the self-sustaining efficiency of the gigantic fleet, submarines and other small and slow speed craft will not make the voyage.

The United States fleet consists of the battle fleet of the Pacific coast, commanded by Admiral V. Pratt, the scouting fleet and the control force, commanded by Vice Admiral M. M. Taylor and

Rear Admiral F. H. Brumby, respectively. Components of the battle fleet on the cruise include the battleship division of dreadnoughts commanded by Vice Admiral M. L. Nulton, the air force, including the new giant aircraft carriers Saratoga and Lexington, under command of Rear Admiral J. M. Reeves, a light cruiser division, two destroyer squadrons, a fleet base force and training vessels.

One battleship division, commanded by Rear Admiral Harris Laning, a destroyer squadron and one training vessel squadron comprise the scouting fleet. The control force, composed of submarines and tenders, will cruise Caribbean waters.

On the return cruise, scheduled for March 15, the battle fleet will make a non-stop voyage from the South American ports to San Diego.

## SEALS YIELD MILLION ON U. S. "FUR FARM"

SEATTLE, Wash., Nov. 17. (AP)—Uncle Sam proved his ability as a fur farmer this year by harvesting a million dollar crop of seals and at the same time adding some \$2,300,000 to the value of his "farm."

The "farm," the little Pribilof islands, 300 miles west of the Alaskan mainland in the Bering sea, is the summer home of the world's largest seal herd. The valuable animals are protected and controlled by the United States and since 1911, when killing on the high seas was prohibited by treaty, only the bureau of fisheries has taken seals and marketed furs.

During the summer 31,098 seals were killed and when the furs are tanned they will have an average value between \$35 and \$40. A census showed that the herd increased 62,842 during the last year, numbering 871,513 as compared with 808,870 a year ago. In the latter part of the eighteenth century, before the start of pelagic sealing, the seals totaled 5,000,000.

Wholesale slaughter had cut the number to 250,000 by 1911. Under government control only three-year-old males are taken, enough being left to assure the herd's normal growth. This year 8,852 three-year-olds were branded for breeding purposes.

The growth of the herd added in the Tenth Judicial District Court of the State of Nevada, in and for the County of Clark.

**CHARLES F. BECKWITH, Plaintiff, vs. BEN EZRA COPPER AND GOLD MINING AND SMELTING COMPANY, a corporation, Defendant.**

### NOTICE OF SHERIFF'S SALE OF REAL PROPERTY

Under and by virtue of an execution issued out of the District Court of the Tenth Judicial District of the State of Nevada, in and for the County of Clark, in an action wherein Charles F. Beckwith is plaintiff and the Ben Ezra Copper and Gold Mining and Smelting Company, a corporation, is defendant, said execution being upon a Judgment rendered on the 24th day of February 1927, in favor of said plaintiff and against said defendant, for the sum of Six Thousand Two Hundred Seventy-one Dollars and 28-100 (\$6,271.28), with accruing interest and costs and accruing costs, upon which there now remains due the sum of One Thousand Seven Hundred Sixty-three and 88-100 (\$1,763.88), with accruing interest and costs and accruing costs, I have this day levied upon all the right, title and interest of said defendant in and to the following described real property, situate in the Eldorado Mining District, County of Clark, State of Nevada, more particularly described as follows: to-wit:

All of the Revenue No. 2 lode mining claims, the same having been heretofore described in the Official Plat and Field Notes on file in the office of the Register of the Carson City Land District, Nevada, as follows:

**HILLSIDE LODGE**  
Beginning at Cor. No. 1, from which U. S. L. M. No. 1A bears N. 33°53' E. 2992.8 ft. and running thence S. 10°03' W. 600.0 ft. to Cor. No. 2, thence N. 86°45' W. 698.3 ft. to Cor. No. 3, thence N. 88°15' W. 801.2 ft. to Cor. No. 4, thence N. 10°03' E. 600.0 ft. to Cor. No. 5, thence S. 88°15' E. 801.2 ft. to Cor. No. 6, thence S. 86°45' E. 698.3 ft. to Cor. No. 1, the place of beginning.

**BROADWAY LODGE**  
Beginning at Cor. No. 1, from which U. S. L. M. No. 1A bears N. 27°05' E. 3466.4 ft. and running thence S. 10°03' W. 600.0 ft. to Cor. No. 2, thence N. 81°47' W. 765.0 ft. to Cor. No. 3, thence S. 86°58' W. 717.5 ft. to Cor. No. 4, thence N. 10°03' E. 596.0 ft. to Cor. No. 5, thence S. 88°15' E. 581.8 ft. to Cor. No. 6, thence S. 86°45' E. 698.3 ft. to Cor. No. 1, the place of beginning.

**DORIS A. L. LODGE**  
Beginning at Cor. No. 1, from which U. S. L. M. No. 1A bears N. 14°15' E. 3856.0 ft. and running thence S. 9°02' W. 600.0 ft. to Cor. No. 2, thence N. 79°15' W. 1500.0 ft. to Cor. No. 3, thence N. 9°02' E. 489.3 ft. to Cor. No. 4, thence S. 81°47' E. 765.0 ft. to Cor. No. 5, thence S. 85°14' E. 736.5 ft. to Cor. No. 1, the place of beginning.

**WESTEND LODGE**  
Beginning at Cor. No. 1, from which U. S. L. M. No. 1A bears N. 45°19'40" E. 4292.6 ft. and running thence S. 10°03' W. 596.0 ft. to Cor. No. 2, thence N. 88°33' W. 776.2 ft. to Cor. No. 3, thence S. 82°55' W. 724.3 ft. to Cor. No. 4, thence N. 10°03' E. 600.0 ft. to Cor. No. 5, thence N. 82°55' E. 724.3 ft. to Cor. No. 6, thence S. 88°15' E. 775.7 ft. to Cor. No. 1, the place of beginning.

Total Area of the lodges as follows:  
Hillside Lodge ..... 20,478 Acres  
Broadway Lodge ..... 19,001 Acres  
Doris A. L. Lodge ..... 18,358 Acres  
Westend Lodge ..... 20,069 Acres

Total Area ..... 77,906 Acres  
Conflict Area with Sur. No. 3799, Crown Point lode is ..... 3,899 Acres

Which excluded from the total leaves net area ..... 74,007 Acres  
The adjoining claim is Crown Point.  
The location certificates are recorded in the Office of County Recorder, Nye County, Nevada, in Book 83, pages 498, 499, and 500.  
All adverse claims should be filed in this office during the sixty days period of publication.

**CLARA M. CRISLER, Register.**  
First pub. Nov. 15, 1928.  
Last pub. Jan. 17, 1929. Each issue.

## Bolshevist Crusaders Burn With Zeal for World Clash

By **J. E. ANGLY**  
(Associated Press Correspondent)  
MOSCOW, Nov. 20. (AP)—Communists the world over are being called upon to get ready for "the coming war."

As Moscow foresees it, at least two big ones are on the way, the first a struggle between two imperialist countries, and the next the whole capitalist world against Soviet Russia. By making use of the hope of the Communists' Internationale that the proletariat will arise everywhere and achieve the world revolution of which Lenin dreamed.

A wordy manifesto telling reds what to do about these coming wars, before, during and after, was adopted by the sixth congress of the Communist Internationale during its recent sessions in Mos-

cow. The manifesto, drawn up by Tom Bell, filled 27 columns of the communist newspaper "Pravda."

Boiled down, the manifesto amounted to this: Workers the world over are being cheated by assurances of peace, growing out of the league of nations, the Locarno pact and the Briand-Kellogg agreement. These agreements are merely means of concealing military preparations being made by the powers, great and small. Meanwhile workers are being exploited everywhere save in Russia and strong nations oppress the weak, as in Nicaragua, Syria, China and India, and elsewhere. The struggle for markets is happening and bringing on an inevitable conflict between two great imperialist countries for world hegemony. The manifesto mentioned no names.

When the "imperialist" war breaks out, communists in combatant countries must refuse to defend their fatherlands. They must, on the contrary, do all they can to bring about their country's defeat. There are many ways. A civil war must be started against the bourgeoisie, the masses must be encouraged to rise in revolt, a general strike should be brought about, propaganda should be carried on in the army and navy, among working women's organizations, in factories and elsewhere. In short, the action of Lenin and his followers when Russia was at war with the Central Powers should be taken as a model. Finally an effort should be made in all countries to set up a proletarian dictatorship.

While waiting for these events to pass, the comintern says the proletariat must struggle against "disarmament lies and false pacifism."

"The chief danger from which Communists suffer," the manifesto said "is an insufficient realization of the inevitableness of war."

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## Fraternal Societies

**Vegas Lodge No. 32, F. & A. M.**  
Stated Communications first Monday of each month at Masonic Hall at 7:30 p. m.  
Special Communications, work requiring, as announced by the Treas. Board, issued each month. Visiting brothers are welcome.

**ATTENTION EAGLES!**  
Las Vegas Aerie No. 1213 Fraternal Order of Eagles meets in regular session the Second and Fourth Tuesdays of each month at 7:30 o'clock p. m. at Levy's Hall. All Stray Eagles cordially invited.

**EARL F. DAVISON, W. M.**  
W. N. Schuyler, Secretary.

**E. P. O. E.**  
Las Vegas Lodge No. 1468 Meets every Thursday evening at 7:30. Club rooms open from 11:00 a. m. to 12:00 p. m. Visiting brothers cordially welcome.

**SOUTHGATE CHAPTER NO. 18**  
Order of the Eastern Star Meeting second and fourth Monday of each month at 7:30 p. m. at Masonic Hall. All visiting members cordially welcome.  
MRS. GRACE NEWLIN, W. M.  
MABEL R. ULLOM, Secretary

**CHARLESTON LODGE NO. 36**  
K. O. F. P.

**LAS VEGAS POST NO. 8 OF THE AMERICAN LEGION**  
Regular meetings, 2nd and 4th Mondays of each month at Club House on Third street, opposite the court house. Visiting members and ex-service men welcome. Club House open every evening.  
C. D. FARRAR, Commander  
LEONARD BLOOD, Adj.

**C. V. T. GILBERT, E. R.**  
Wm. L. SCOTT, Secretary

**PALM TREES**  
I have a few Palm Trees, of the long leaved kind, in gallon cans, for sale. Also a few Oleanders. Price, each, \$1. Buy now. I'll move Jan. 1, 1929. J. W. Carpenter, West Side, Las Vegas, Nev.

**Artesia Lodge No. 43 I. O. O. F.**  
Meets 1st and 3rd Wednesdays of each month at 7:30 P. M. Levy's Hall, Fremont St., between First and Second. Visiting brothers cordially welcomed.  
A. D. HEINRICHSEN, N. G.  
DONALD BREMN, Sec.