Page Eight

Chicago Sunday Tribune

# Mostly About Dogs – The Art of Grooming

**Pictures Tell** 

Story of

Stripping

By BOB BECKER • The art of stripping or trimming a terrier, an operation that removes the dead hairs in its coat and cuts the new ones, is one of the most important aids to a dog's health and smart appearance. Wire-haired terriers, Scotties, Sealyhams, Irish terriers, and other terriers especially are much better looking if their coats are stripped and trimmed occasionally. • In the adjoining pictures Owen Craighead, Highland Park, Ill., terrier authority and nationally known handler of dogs, shows how the correct use of grooming articles on an unkempt, dirty wire-haired terrier changes it from an unattractive specimen to a

stylish, good looking pet.



### Unkempt and dirty, this wirehaired terrier named Wyrestone Fairly Decent Before looked like this before he was groomed.



Removing the excess and dead hair from the dog's head with a stripping knife is the first step.



Owen Craighead shows how a knife 4 is used to strip surplus hair off the back of the dog.



3 After finishing the body the handler works on the dog's legs.



After

Filing the nails. This 4 should be done occasionally for house pets.



5 Chalking-common practice on dogs that are all or partly white.



6 Combing out the terrier's whiskers parallel with his jaws, and down, not up, from the chin.



## The Graphic Laboratory of Popular Science

The Story of Holland's made frequent underwater cruises in New York harbor, once **First Submarines** 

By JOHN A. MENAUGH

HERE ONCE was an Irish means of livelihood. His main ried a crew of three men, was youth who dreamed that interests still centered on subma- 31 feet long, 6 feet in the beam, the power and prestige of rines. In 1875 he offered his and displaced 19 tons. It was the British fleet could be deplans to the United States navy. stroyed by war craft capable of They were rejected as a fantasoperating beneath the surface tic scheme of a civilian landsof the sea. man. So he set about building In addition to being a dreamhis own submarine, a little cigarer this young man was a doer. shaped craft barely sixteen feet He pioneered in the field of long and two feet in diameter submarine invention and conamidships. It was a one-man struction. He almost lived to affair, containing air chambers witness Great Britain's darkest fore and aft and operated by a hour, when German U-boats, depropeller turned by foot pedals. velopments of his own original Air tubes led to a respirator submarines, maintained a ring shaped like a diver's helmet of death around the British Isles. which was worn by the one-man crew

remained sixty feet below the surface for a full hour, and demonstrated that it was a very capable vessel under certain limitations.

The Fenian Ram, which car-



Here's the same dog after being stripped, combed, and chalked. Notice how

John Philip Holland

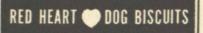


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If the Anglophobe groups among his own Irish-American people had been able to keep America out of the World war the Germans would have won, largely through the activities of their submarines.

Next year will occur the one hundredth birthday of one of the most famous of that limited group-leap year day babies. John Philip Holland was born on Feb. 29, 1840, in Liscanor, County Clare, Ireland, and was only 22 years old when the ironclads, the U. S. S. Monitor and the Confederate Merrimac, fought their famous battle, an American Civil war encounter that exerted a marked influence upon him. He realized from this engagement that naval warfare was to be revolutionized. He hit upon the idea that armored craft such as the Monitor and the Merrimac could be defeated by submarines. Thus it was that he conceived the submarine in his youth and as an Irish patriot saw how it might be employed against the British navy to obtain independence for Ireland,

Holland was a school teacher when he began the study of works on naval designing and construction. In 1870 he prepared plans for a submarine, but, being without adequate funds, he was forced to lay these plans aside. Late in 1873 he came to America, obtaining a teacher's job the following year in Paterson, N. J.

In 1877 Holland launched his second submarine, a doublehulled craft driven by a fourhorsepower petroleum engine of simple design. In this he carried on a series of experiments. After a number of trials on the Passaic river this vessel was abandoned. Its builder removed its engine and sank the craft in the river. (In 1927 it was recovered and placed in the Paterson museum. Holland then negotiated with the Fenian society, an Irish republican brotherhood, with the aim of building submarines to help win Ireland's independence. He was not a Fenian himself, but, as previously emphasized, he was thoroughly in sympathy with the Irish freedom cause. The Fenians supplied Holland with a sum of approximately \$23,000 to build a submarine that they hoped could cross the Atlantic and destroy the British fleet. Rear Admiral Philip Hichborn of the United States navy said this vessel was the first. buoyant submarine to be steered down and up in the vertical plane by horizontal rudder action as she was pushed forward by her motor, instead of being pushed up and down by vertical-acting mechanism. The vessel, however, did not prove practical. In 1881 the fourth Holland submarine was launched. This was constructed at the Delamater yard on the Hudson river. Dubbed the "Fenian Ram" by

propelled by a one-cylinder internal-combustion oil engine. Except for obvious defects in its power system it embodied the main principles of the modern submarine in balance, control, and compensation for weight lost with torpedo discharge. The vessel, virtually intact, remains Works in Baltimore, Md., but the today in a Paterson park, a memorial to its inventor.

The favorable attention that Holland had attracted with the Fenian Ram and several subsequent craft finally awakened submarine interest in the United



Early Holland submarine, part of memorial to inventor in a Paterson, N. J., park. (Associated Press photo.)

the navy in competition with other inventors, and in each instance his designs were selected. But federal appropriations were lacking. The vessels could not be built.

In 1895, however, the Holland Torpedo Boat company, in which the inventor possessed an interest, procured a navy contract to construct a submarine according to navy specifications. The price was fixed at \$150,000. Work was Pedagogy was merely his New York newspapers, the craft started at the Columbian Iron for use against the Spaniards in

submitted submarine plans to and construct an entirely new submarine.

This was the eighth undersea craft to be built by Holland. But it also proved a failure. Construction on the ninth vessel was begun. This turned out to be the first of the general type of the modern submarines. It was laid down and finished in a shipyard in Elizabethport, N. J., christened the Holland at its launching in the spring of 1898, and offered to the government

the Spanish-American war. Holland pleaded to be allowed to vessel, which was named the Plunger, was not a success. Holtake his vessel into the harbor land's plans were ignored in its at Santiago de Cuba to attack construction. Although the ves-Cervera's squadron. Naval sel was launched in 1897, it never authorities, however, would not was finished. Holland persuadconsent to his bold plan. The ed the government to allow his Holland did not become a United States war vessel until Oct. 13, 1900, when it was placed in commission under the command of Lieut. Harry H. Caldwell. It had been purchased during the previous April for \$150,000; had cost

\$236,000 to build. The Holland was 53 feet 10 inches long, 10 feet in diameter, and had a submerged displacement of 75 tons. Its armament consisted of one bow torpedo tube, one bow pneumatic dynamite gun, and several Whitehead torpedoes. It was powered with a gasoline engine for surface propulsion and an electric motor and batteries for submerged cruising. It was the first vessel to be thus equipped, and the first capable of operating for any great distance below the surface. The success of the Holland caused the government to contract with the Holland Torpedo Boat company for the construction of six more submarines. Soon after five similar craft were ordered through the agency of Vickers Sons & Maxim for the British admiralty, which before



sel that was offered to the government for use against the Spaniards in 1898 and subsequently purchased by the navywas condemned in 1915 and broken up for junk.

Holland withdrew from the Holland Torpedo Boat company in 1904. The company was absorbed by the Electric Boat company, which to this day has been actively engaged in constructing submarines. The inventor, at about the time of his retirement from the Holland company, devised a respirator for use in escaping from a submerged disabled submarine. His final years were devoted to experiments in the aeronautical field.

He died on Aug. 12, 1914, eight days after Great Britain declared war on Germany. And thus he did not live quite long enough to obtain the satisfaction that might have been his when German submarines, developed from his own inventions, more than held at bay for months and months Great Britain's power upon the sea.



 For attractive offers of dogs, turn to the Dogs, Cats, Birds, and Pets columns in the want ad section of today's Tribune.

(Photo courtesy Electric Boat Co.)

The Holland, first submarine sold to the United States navy, on test run. Holland stands at the right.