



# Creating a Healthier, More Vibrant Open and Closed Aquatic Environment. A Submersible, Centrifugal Magnetically Affixed Current Changing Aquarium Pump

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## Editorial

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## Abstract

### Food, Fish, and Feed

The world continues to pollute the ocean, overfish the aquatic species, look for new protein and food supply, produce resilient coral reefs and reseed the great barrier reef. Sealife Aquariums Corporation now has perfected a manmade aquatic environment for food, fish and feed for aquaculture. One benefit of this would be to grow fish quicker and healthier. Many aquatic species include salmon, perch, shrimp, mussels, clams and many more. Another benefit would include growing macro and micro algae for fish feed and other products. Algae are one of the fastest growing plants on earth and the goal is to produce as much as possible in a short period of time. This useful invention will also speed up the growth of fish and other species, thus creating a healthy food source.

Sealife Aquariums Corporation 50 years as a marine Aquarist now has discovered the missing link to a healthier, more vibrant open and closed aquatic environment. Creating a machine driven current like nature intended, wider increased robust flow with magnetic attachment. A wider centrifugal flow design makes a beneficial current with no shearing forces like older centripetal flow design pumps. To duplicate nature just like the oceans, rivers, and lakes. The aquatic environment needs a strong current to sustain plants and aquatic species. Perfecting a natural open and closed aquatic environment. Just like nature produces in saltwater environments, brackish water environments and freshwater environments.

The challenge in a closed aquatic environment is to turn over the liquid contents in the entire container up to 40 times every hour, and to distribute all the nutrients including oxygen throughout the container. Also, fish get a vigorous workout swimming in the current to increase growth and improve the taste. Unlike land food protein which needs very limited exercise for growth.

**Keywords:** Aquaculture, Circulation Pump, Feed Production

## Editorial

### Definition of Market

Beneficial for; public aquariums and zoos, aquaculture, mariculture, fish farming, coral propagation and last but not least Aquarist worldwide. Showing cross industry applications. All aquatic species will grow rapidly utilizing this circulation pump to incorporate into this healthier, more vibrant open and closed aquatic environment.

Approximately 108 companies worldwide are growing algae for various applications nutritional supplements and cosmetics to biofuels, carbon capture and fish feed.

Approximately 250 aquariums and zoos worldwide in the entertainment industry. Approximately millions of aquaculture facilities are operating worldwide growing fish or other species. Increasing recognition that fish is a healthy protein, low in calories and low cholesterol levels. Showing increased consumer demand in both restaurants and supermarkets. Fish are excellent animals to rear. They convert feed into body mass more efficiently, transforming about 70% of their feed into flesh. Consumption of fish products around the world is increasing dramatically and now averages about 20.7kg (45.6 pounds per person. Also, any scrap can be used for recycling other products like fertilizer, 100% of each fish processed. The global fish market was estimated in 2024 to be over 300 billion.

Also Aquarist worldwide (pet industry) will be more content in raising healthier inhabitants in their display tanks at home or business.

### Complete Aquatic System Build

Sealife Aquariums Corporation can now develop a complete aquatic environment with all the pieces together as one unit. Products will include a centrifugal flow design circulation pump, lighting, foam fractionators, containers, raceways, a refugium, supplements, testers, dosing pumps, centripetal flow design pumps, calcium reactors, filters skimmers, and much more. Many new products are becoming available each and every year.

Just as the mouse trap needs all components to work properly, so does the aquatic environment.

### Copycat Products

Many products are being sold today. Submersible centrifugal magnetically affixed current changing aquarium

pumps. Showing the inventions commercial success and copying the same invention by competitors.

For the Aquarist small to large home and business aquariums. Pumps ranging in flow output from 1800 to 50,000 liters per hour. With many companies in the aquarium trade including Tunze Hydor, Eheim, Aquaallumination, Sicce, and many more. Prices range from \$19.99 USD to 6,000.00 USD for each circulation pump. Some companies in the aquarium products have been in business for 75 years.

To the very large public aquariums with pumps ranging from 220,000 l/h. and for aquaculture with extremely large pumps 550,000 l/h (2400 gallons per minute). Prices ranging from 6,000.00USD to 20,000.00USD All with available magnetic attachment. Using no bothersome brackets or failing suction cups. New companies supplying Public Aquariums and Zoos and Aquaculture are Abyzz, Panta Rhei natural aquarium technology to name a few.

### Deeper Definition

The difficulty at the U.S.P.T.O. stems from the centrifugal flow design moving away from the center or axis of the motor and impeller assembly. Opposite of centripetal flow design moving in a direction toward the center or axis of the motor and impeller assembly. The new and useful invention is indicative of placing a household fan in the water making it safe and beneficial for the inhabitants. With easy to use permanent and movable magnetic attachment.

### Conclusion

I am requesting a licensing contract or some collaboration, to bring this patent to fruition. Licensing deals with equity participation with royalty payments and my participation in new products to develop and trade secrets. Including information of first round of prototype completed with packaging design completed.

### Google Patents

<https://patents.google.com/patent/US7744355B2/en?q=US+7%2c744%2c355+>

<https://patents.google.com/patent/USRE47580E1/en?q=aquarium+pump&oq=aquarium+pump>

<https://ishow.inventionhome.com/portfsite.aspx?TFN=137435155W9911156R1512>