



For Immediate Release:

Plews & Edelmann Awarded Patent for Revolutionary Universal Power Steering Filter Design

- *Innovative interchangeable fitting system sets new industry standard for universal application*
- *Technology stems from market research and customer feedback analysis*

(DIXON, IL – November 1, 2024) — Plews & Edelmann®, a leading manufacturer of power steering components, has been awarded a U.S. patent (No. US 12,110,069 B2) for its groundbreaking threadless selective nozzle system, featured in the Edelmann Elite® power steering filter. This innovative technology establishes a new benchmark in universal power steering filter design, addressing long-standing industry challenges in fitment and installation.

The newly patented technology centers on a unique system of interchangeable end fittings that can be easily swapped to accommodate different hose sizes. Each filter comes equipped with multiple pairs of these innovative fittings, designed to provide precise connections for 3/8" (9.5mm), 1/2" (13mm), and 5/8" (16mm) ID power steering hoses. This versatile fitting system achieves true universal application coverage for over 99% of domestic and import vehicles, eliminating the common frustration of purchasing incorrect filter sizes that has long plagued both professional technicians and DIY mechanics.

"We started with a clean sheet approach and just wanted to create the best possible power steering filter," explained Anthony Holguin, Director of Category Management at Plews & Edelmann and co-inventor. "One glaring topic that kept coming up was sizing issues. Customers would buy a filter, cut their return line only to realize they have the wrong size filter for their hose's diameter. With the swappable nozzles, customers can now have the confidence to install the filter without worrying about being stuck with a ruined return hose."

This customer-focused development process led to the creation of the patented fitting system. "This filter was purposefully developed with our intuitive threadless selective nozzle system on both ends which allows the filter to easily be resized to fit any common power steering return hose," said Toby Kuntzelman, Engineering Manager at Plews & Edelmann and co-inventor of the patented design. "The innovation represents a significant leap forward in power steering filter accessibility."

The patented threadless system features an innovative retention design that ensures secure connection without traditional threading. Each fitting includes a precision-engineered channel that accepts a retention clip, creating a positive lock when inserted into the filter body. An internal O-ring within the filter maintains consistent sealing pressure on the fitting after installation, ensuring leak-free operation. The fittings feature graduated steps that correspond to standard power steering hose sizes, allowing for a tight, secure seal across multiple hose diameters. The system also considers internal flow patterns to optimize and maintain consistent fluid dynamics regardless of the fitting configuration. This attention to hydraulic engineering ensures that the filter's performance remains consistent across all applications.

Beyond its revolutionary fitting system, the filter incorporates dual filtration technology, and an oversized magnet housed in an anodized aircraft aluminum body, providing superior protection against both metallic and non-metallic contamination. The compact, serviceable design ensures easy installation in tight spaces while maintaining high-capacity flow rates.

This patent further strengthens Plews & Edelmann as an innovation leader in the automotive aftermarket in power steering solutions. The technology is currently featured in the Edelmann Elite power steering filter (Part No. 70699), which includes the filter, 6 total connectors, and two stainless steel hose clamps.

For more information about the patented universal power steering filter and other Plews & Edelmann innovations, visit <https://module.plews-edelmann.com/filter>.

About Plews & Edelmann

Plews & Edelmann® is a leading manufacturer and marketer of Edelmann® power steering hoses, electric power steering repair kits and tools, power steering seal and rebuild kits, turbocharger oil lines, Edelmann Elite® high performance power steering hoses, all new manufactured power steering rack and pinion assemblies, pumps, gear boxes, power steering coolers, premium universal power steering filter and fluid.

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Image file: PS Filter Components.jpg

Caption: Plews & Edelmann Awarded Patent for Filter Design



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