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The j-pole antenna is fixed...

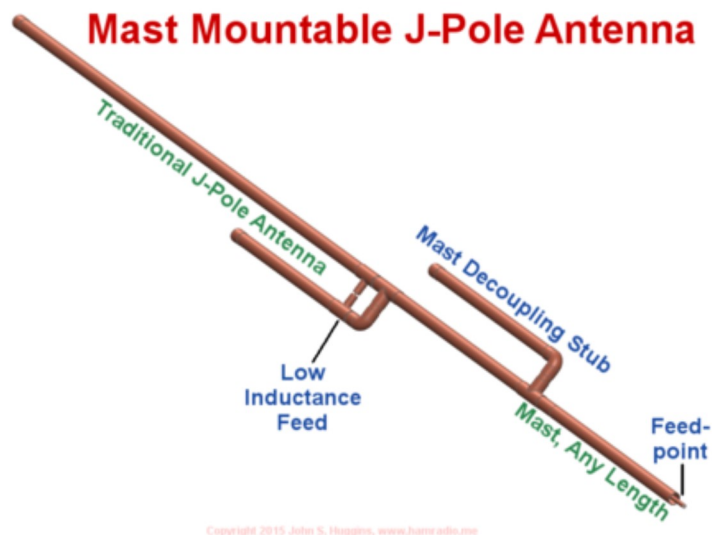
Discussion in 'Amateur Radio News' started by KX40, Today at 11:49 AM.

Tags: [j antenna](#) [j-pole](#) [j-pole antenna](#)[Go to First Unread](#)[Unwatch Thread](#)**KX40**

Ham Member

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...or invalidated depending on your point of view.
Presenting the...

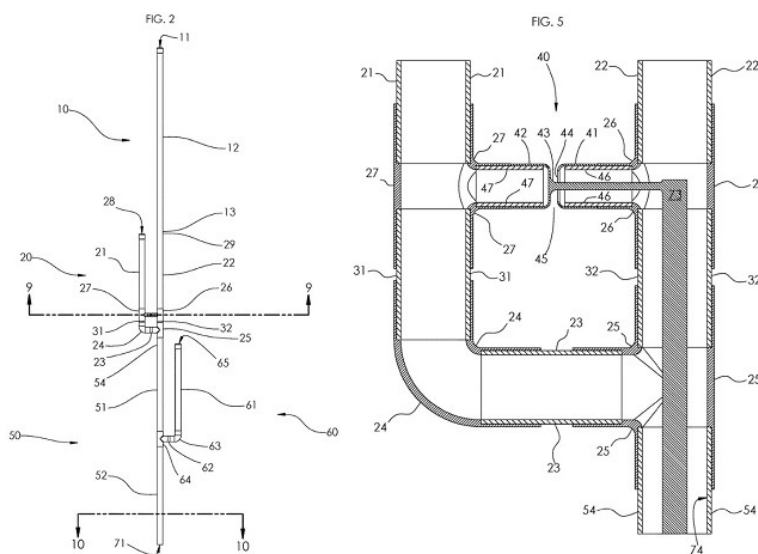
[New](#)

Two new patents address shortcomings of the 84 or more year old traditional J antenna design. This effort features the following highlights.

- The research includes extensive J antenna myth busting, validating the concerns trumpeted by many over the years, using method of moments and finite-difference time-domain simulation techniques confirmed by real antenna chamber measurements.
- The utility patent voluntarily catalogs and reviews many published papers and related patents.
- The addition of a mast decoupling stub mitigates the propensity of the J antenna to energize a conductive mast. No more does the J antenna

require an ideal length of conductive mast to perform correctly.

- The parallel nature of the mast decoupling stub maintains the slender nature of the J antenna.
- Internalizing the feed line of hollow pipe J antennas eliminates the traditional, but famously awkward, external feed line dressing. Additionally this internal feed approach performs double duty by naturally decoupling the feed line from the antenna.
- The improvements maintain the J antenna's notable direct electrical connection through robust antenna conductors to the mounting structure and, hence, ground from dc to just below the primary design frequency.
- Design patent - <https://patents.google.com/patent/USD798847S1/>
- Utility patent - <https://patents.google.com/patent/US10468743B2/>
- Background and research - <https://www.hamradio.me/interests/j-pole>



Whether or not this functional version of the J antenna has utility to users remains to be seen. At least this one works.

"It is much easier to be critical than to be correct." B. Disraeli.

KX4O, Today at 11:49 AM [Report](#)

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KOUO likes this.

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**KM1H**

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AFIK, that mast decoupling stub is not new and has appeared in a magazine in the past.

Carl

KM1H, 47 minutes ago [Report](#)#8 [Like](#) [Reply](#)

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**WD5HNI**

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Fab a single J antenna years ago for 6, seems ok, but when the tuff gets going, the 7 element elevated off the ground wins hand down. Besides the majority of the hams today do not build antennas! Just too easy to get the laptop out and order a dipole or made up ant today.

SW.

WD5HNI, 4 minutes ago [Report](#)#9 [Like](#) [Reply](#)

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**KD7TWW**

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Bump
73, KD7TWW

-

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Vince

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To the Author? If I could larger Jpeg pictures. That would be great! KD7TWW 73 Vince

-

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Vince

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