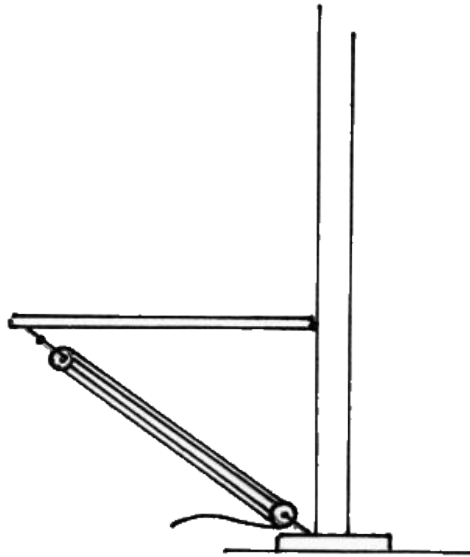


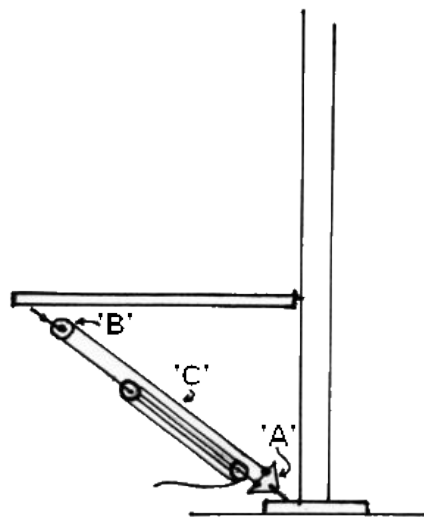
## Improve your “Kicker” by John Gravatt

Sketch 1. shows a conventional “kicker” arrangement which, with a twin block arrangement, usually provides a 4:1 purchase.



1.

Sketch 2. shows a much more efficient cascade system – it uses the same initial kicker arrangement and has the same initial purchase, but the efficiency is doubled to 8:1 by using the wire cascade “C” on top.



2.

On Osiris, I made the triangular bracket “A” out of a piece of scrap stainless steel about 4mm thick and with holes drilled at each corner to take the shackles from the original kicker, the new wire cascade and the link shackle to the base. The block “B” is a swivel wire rope block (Barton) and the cascade wire is 4mm 7x19 stainless with swaged eyes for the shackle connections.

The link between the plate "A" and the mast base is by stainless steel link shackle and conventional "D" shackles.

I initially made a mock-up of the plate "A" out of plywood to work out the best size and shape and used string to determine the correct length of the cascade wire before having this made up. This modification has made a vast difference on Osiris to both sail shape and boom control.

