

WIDE-OPEN RECEIVER WITH CONTINUOUS-WAVE-PROTECTED CHANNEL

ABSTRACT

Disclosed herein is a wide-open receiver (4) comprising a plurality of goniometric channels (41) each intended to be
5 coupled with a respective antenna (5) to receive a respective incoming radiofrequency signal, and operable to obtain, on the basis of the respective incoming radiofrequency signal, a respective first video signal indicative of a power of said respective incoming
10 radiofrequency signal, and a respective second video signal (Y) based on said respective first video signal. The wide-open receiver (4) comprises also processing means (44) operable to detect, on the basis of the second video signals (Y), one or more pulsed signal(s) present in one or
15 more of the incoming radiofrequency signal(s). The wide-open receiver (4) further comprises a continuous-wave-protected channel (43) operable to receive a combined radiofrequency signal (C) based on the incoming radiofrequency signals received by all the goniometric
20 channels (41), and to obtain, on the basis of the combined radiofrequency signal (C), a continuous-wave-free radiofrequency signal which is free of a continuous wave signal present in one or more of the incoming radiofrequency signal(s), and a validation video signal (S)
25 on the basis of said continuous-wave-free radiofrequency signal. Moreover, the processing means (44) are operable to estimate a continuous wave power on the basis of the second video signals (Y) and of the validation video signal (S), and each goniometric channel (41) is operable to remove, on
30 the basis of the estimated continuous wave power, a continuous wave video signal contribution from the respective first video signal thereby obtaining a respective intermediate video signal, and to obtain the respective second video signal (Y) based on said respective
35 intermediate video signal.

Figure 4