



## Espacenet

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#### FINITE IMPULSE RESPONSE (FIR) FILTER AND RECEIVER WITH SUCH A FILTER

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#### Samenvatting van WO2022002358 (A1)

A FIR filter that is arranged to receive an analog input signal and sample the analog input signal at a plurality of discrete points in time  $k$  with a sampling frequency  $f_S$  to obtain a sampled analog input signal having a continuous signal value. The FIR filter is further arranged to generate a scaled analog input signal having a continuous signal value by scaling the sampled 5 analog input signal on the basis of a plurality of scaling coefficients. The FIR filter further arranged to provide, by integration over a timed window, an integrated signal which is the sum of  $L$  scaled analog signal samples,  $L$  being an integer value, and to provide the integrated signal as an output signal from the integrator at an output rate.