

1/15

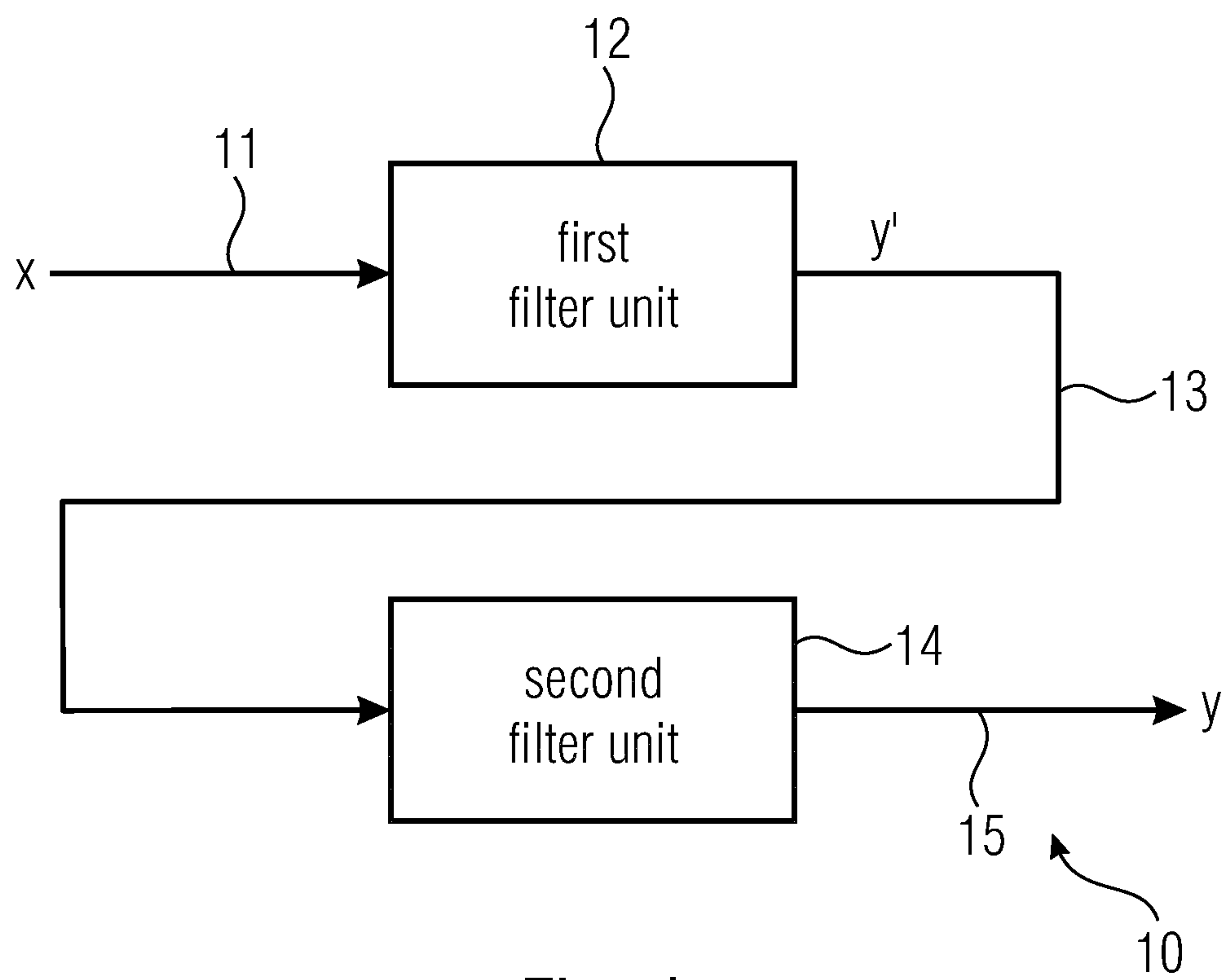


Fig. 1

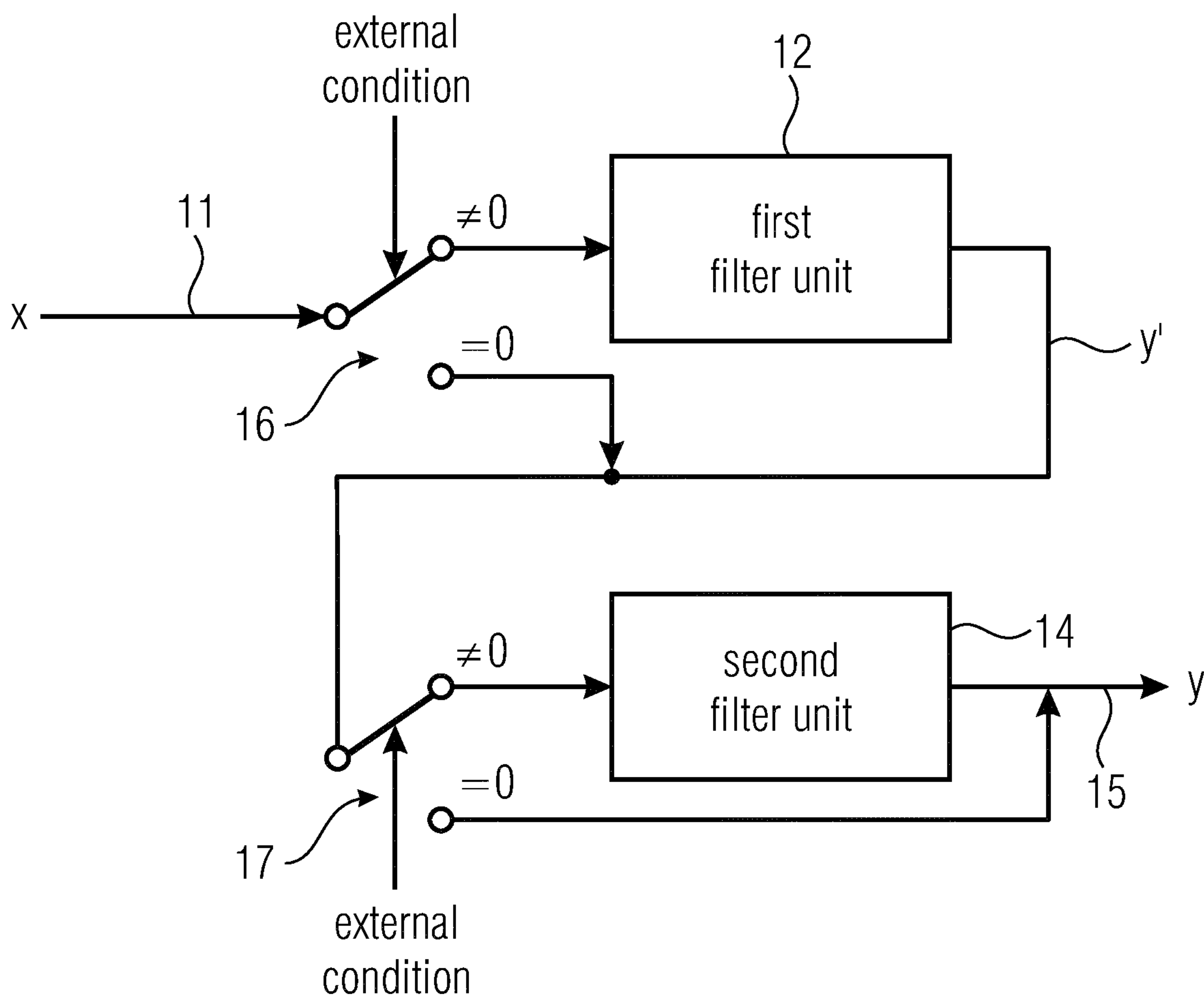


Fig. 1a

2/15

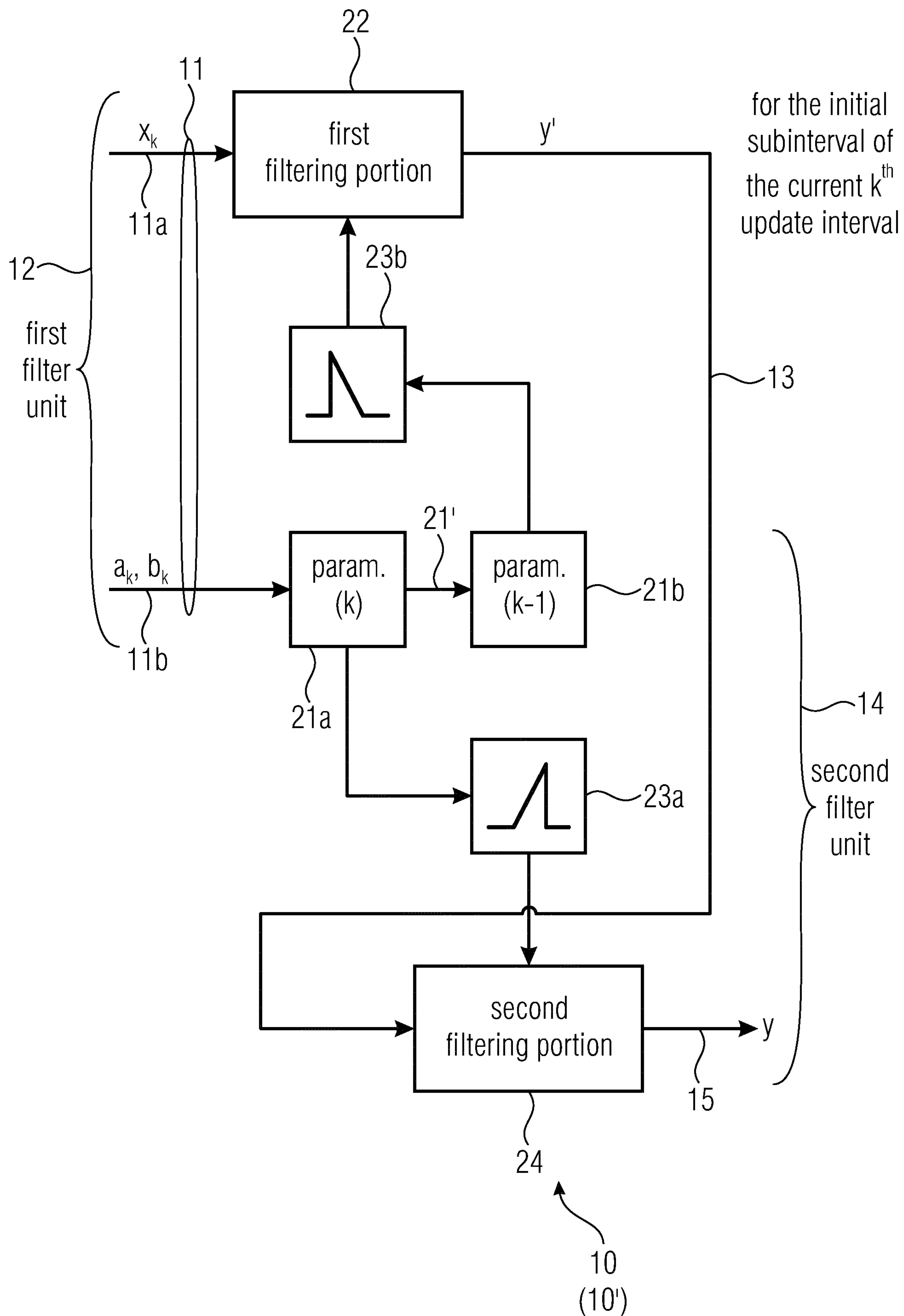


Fig. 2

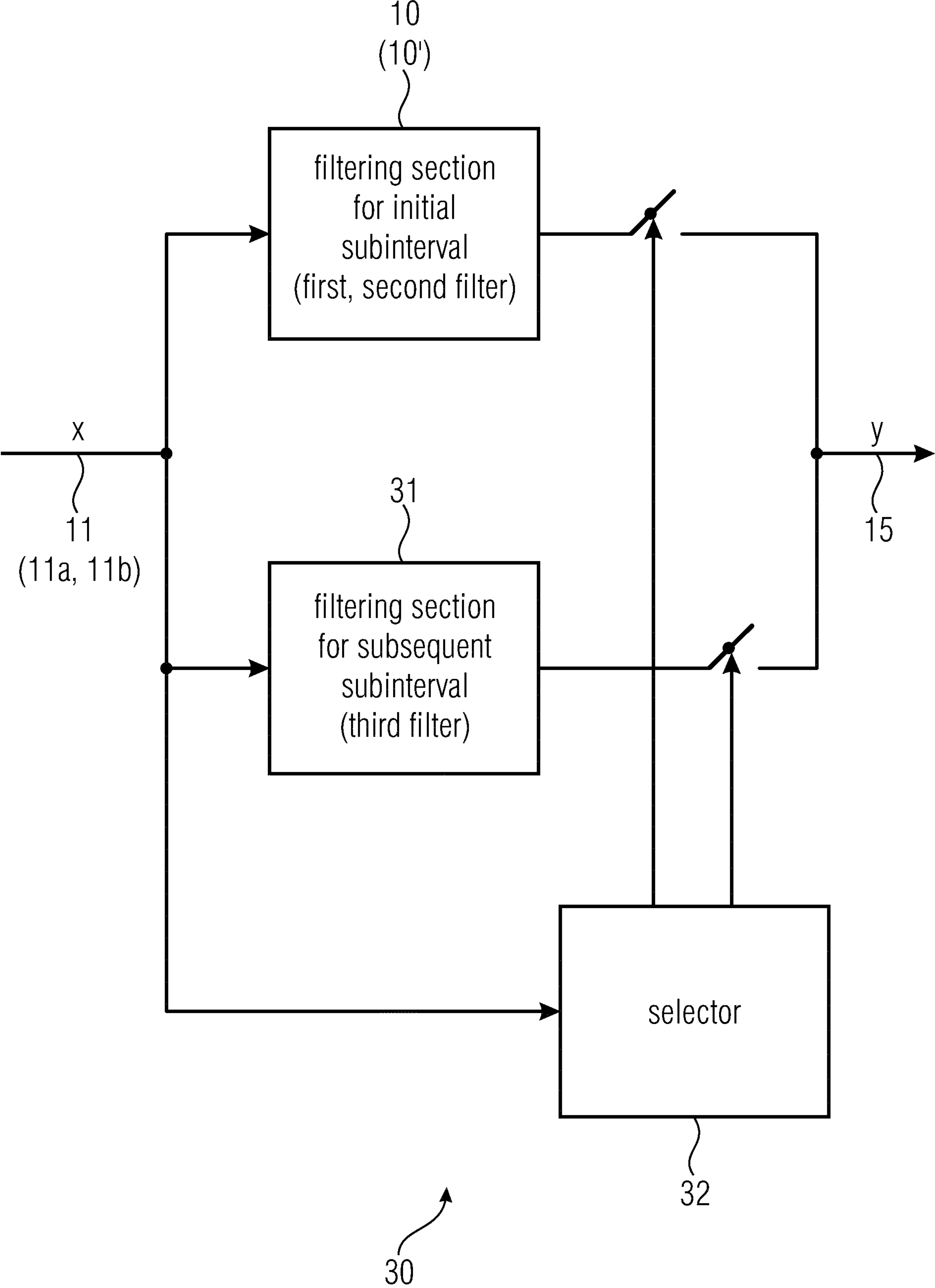


Fig. 3

4/15

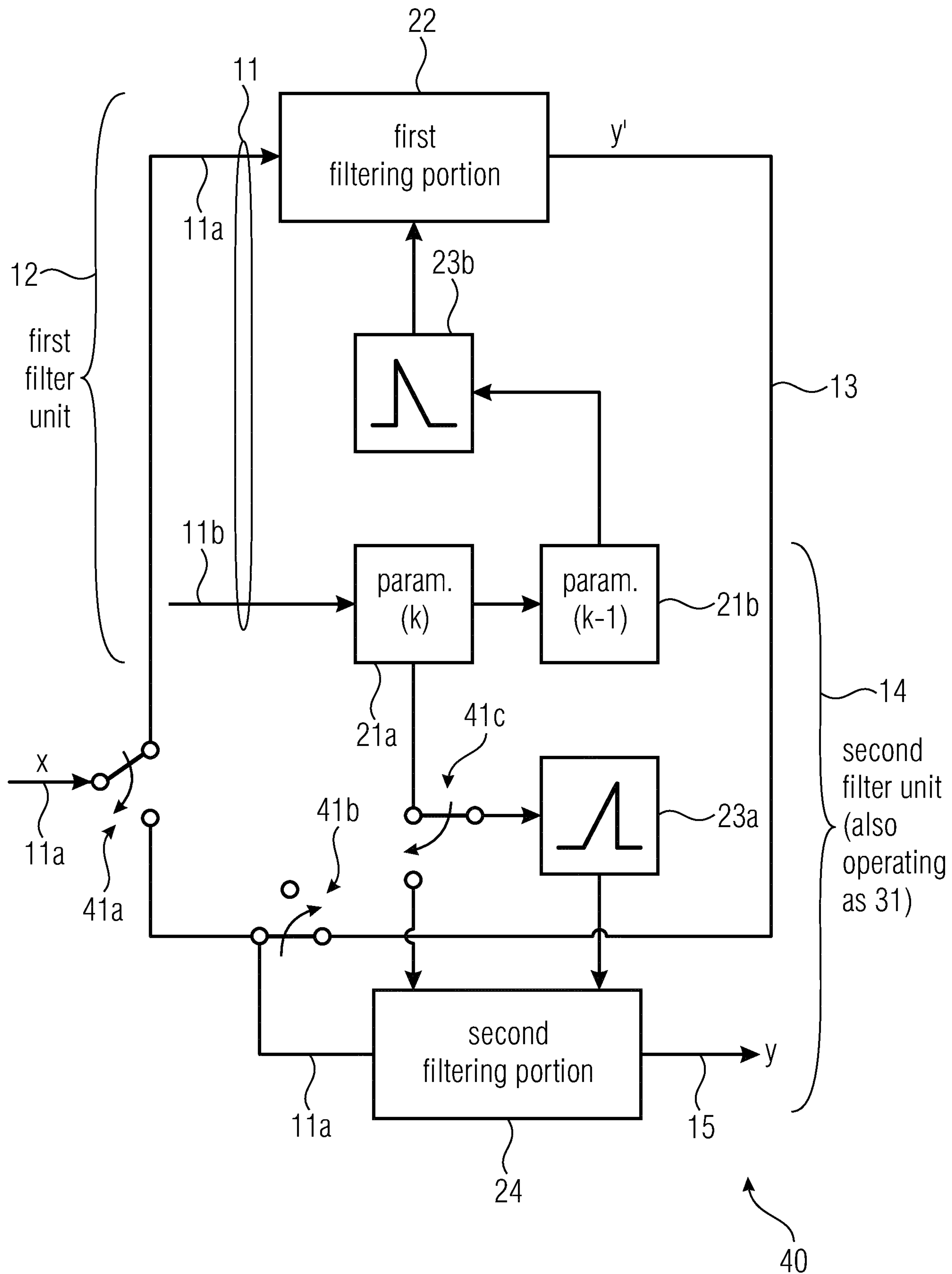


Fig. 4

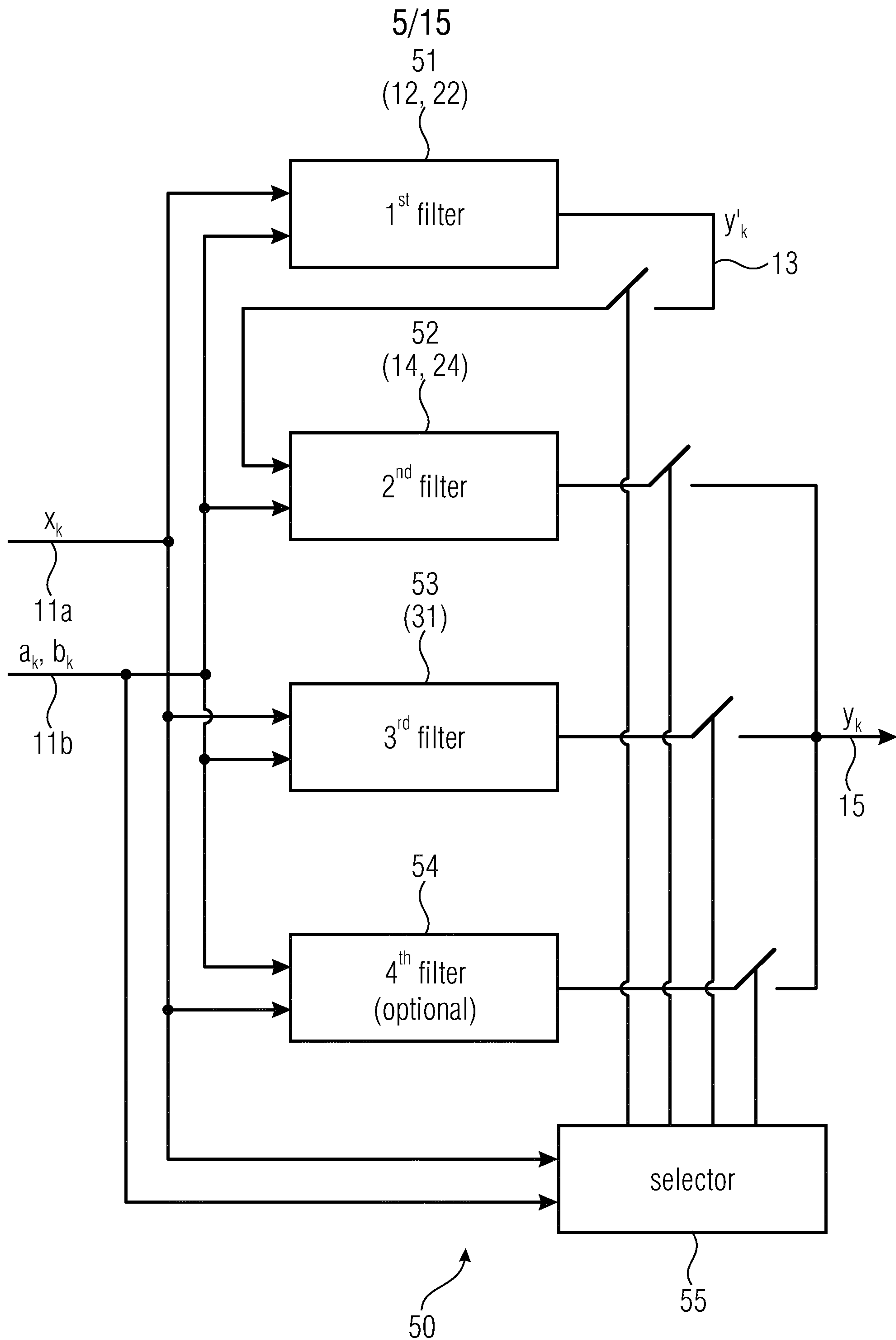


Fig. 5a

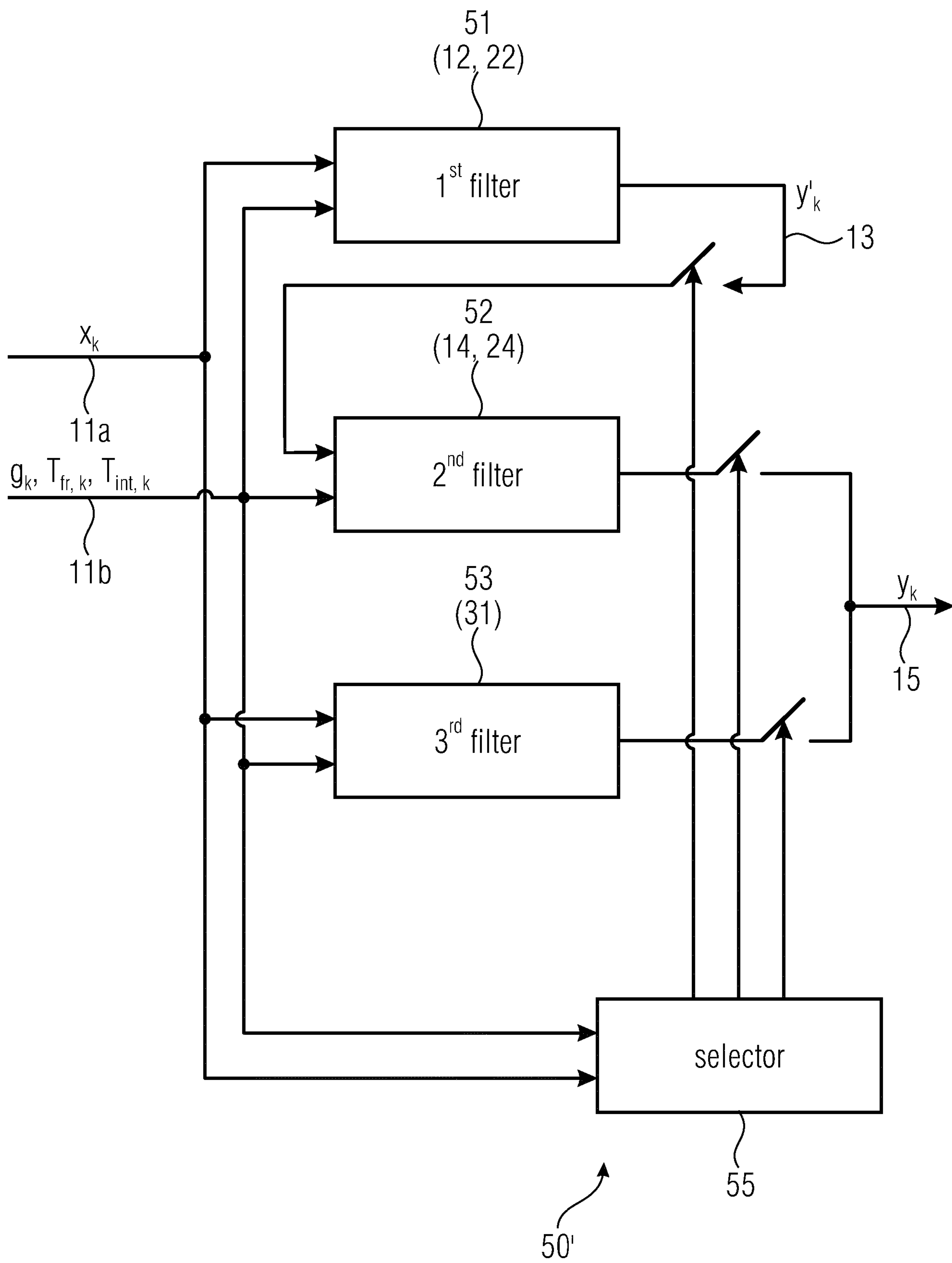


Fig. 5b

7/15

UI = update interval
SI = subinterval

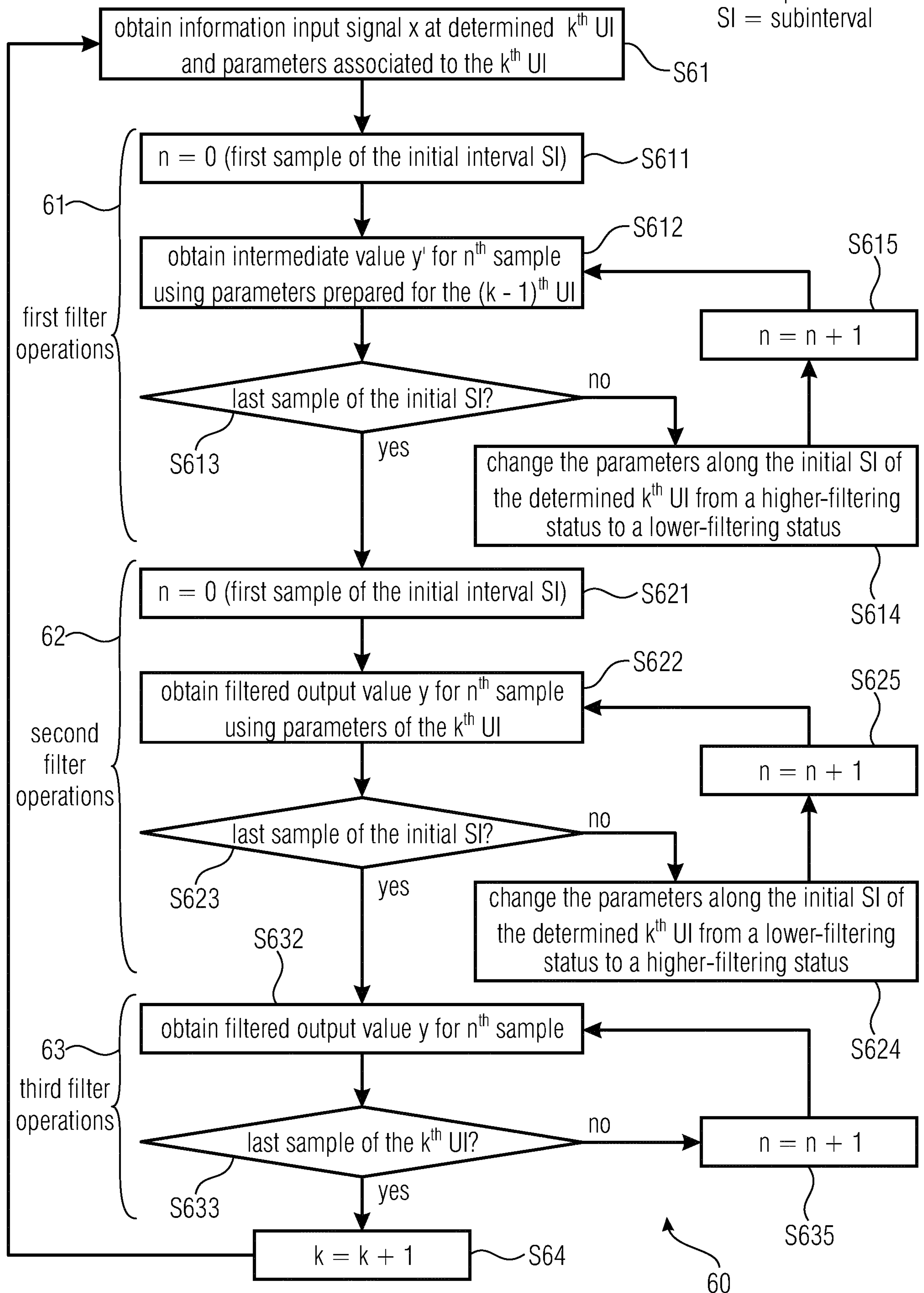


Fig. 6

8/15

UI = update interval
SI = subinterval

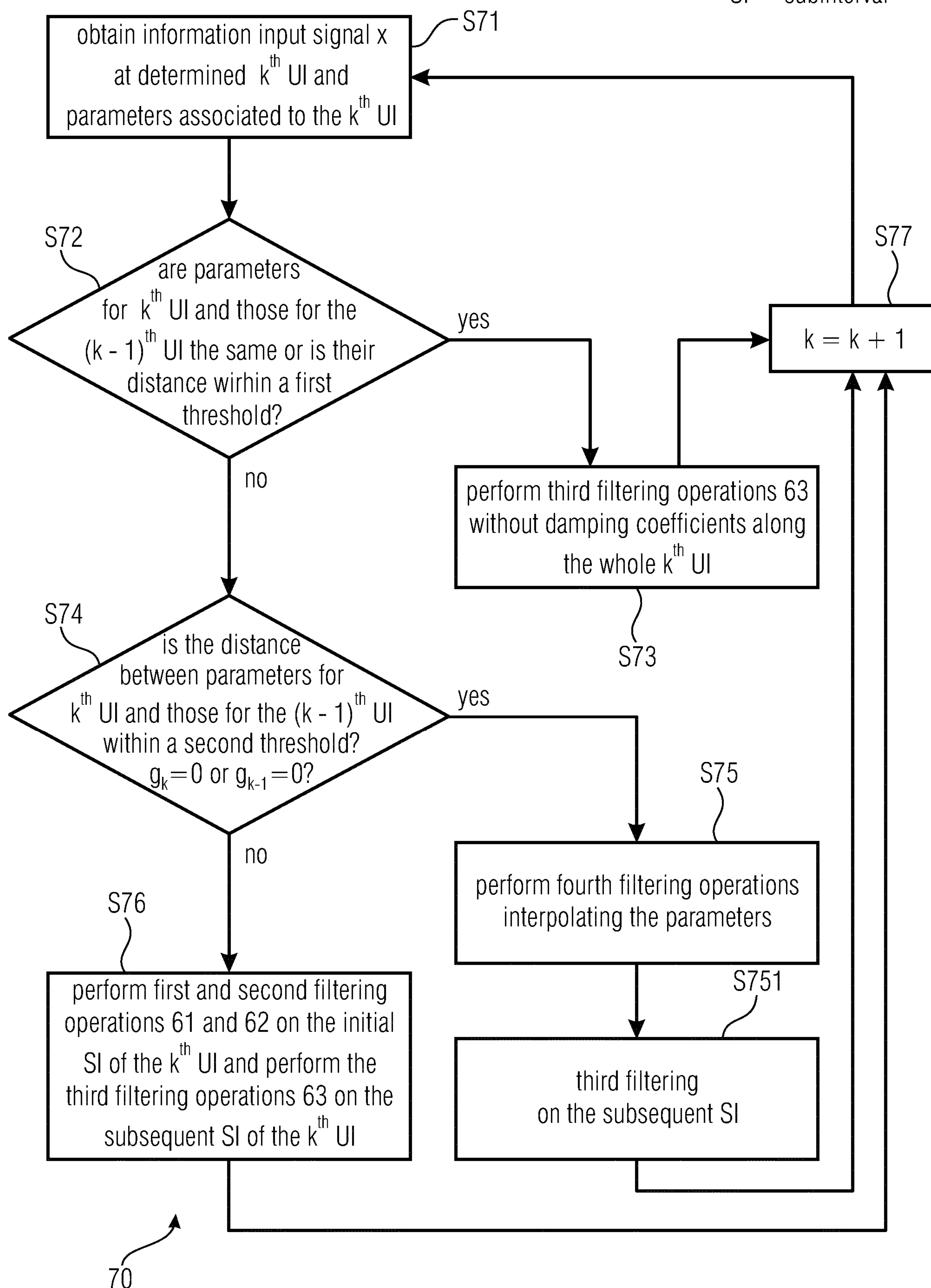


Fig. 7

9/15

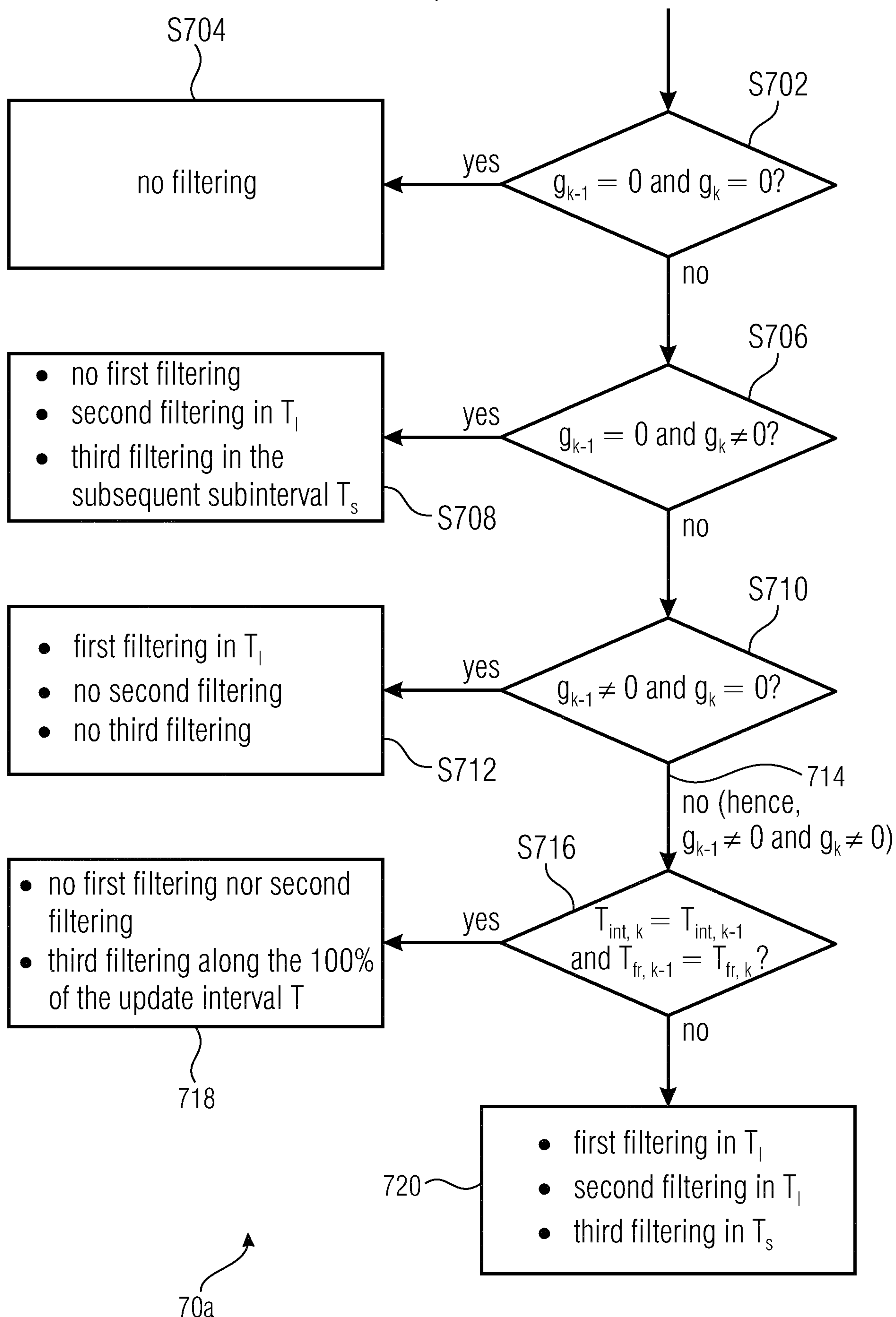


Fig. 7a

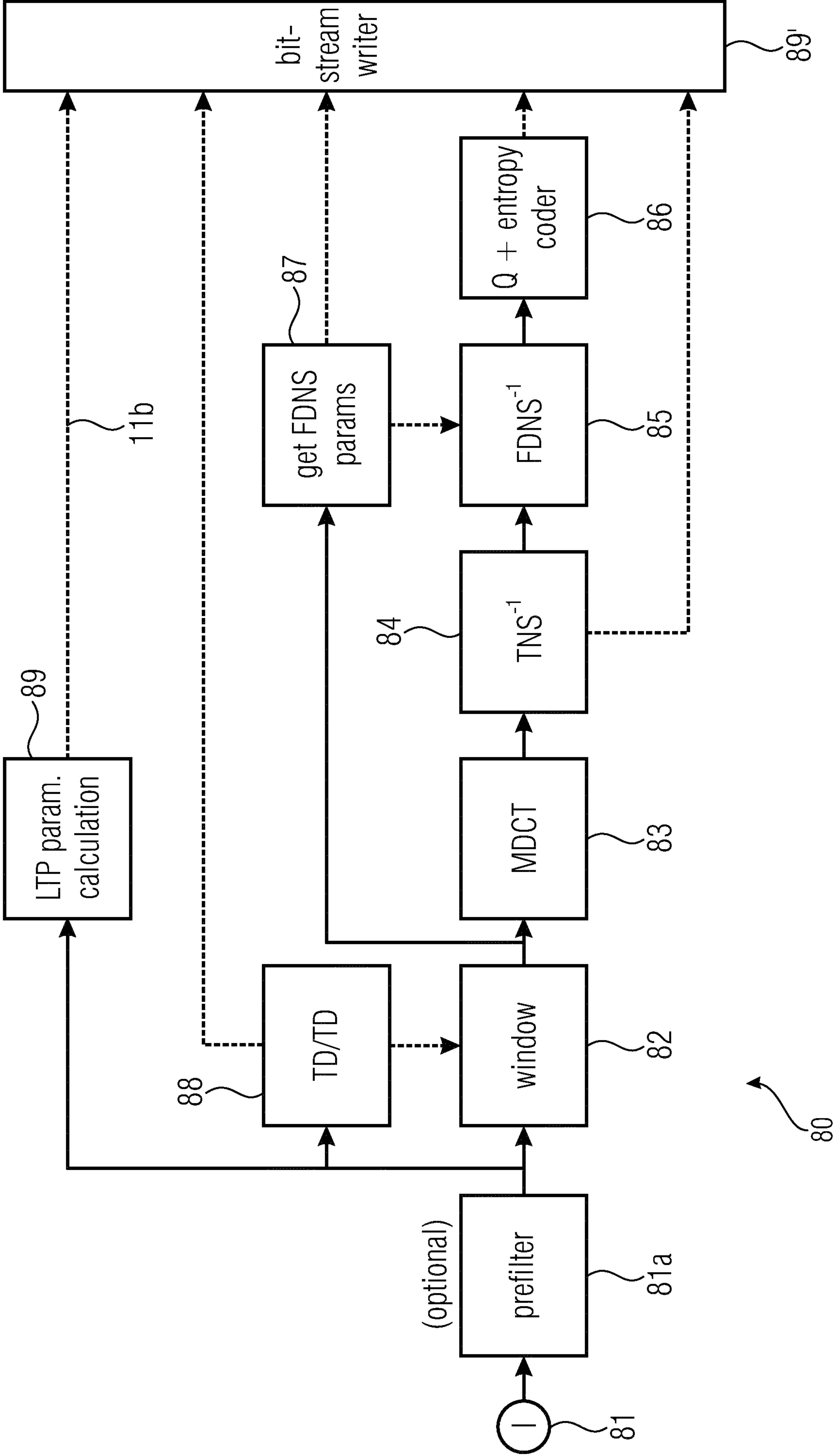


Fig. 8

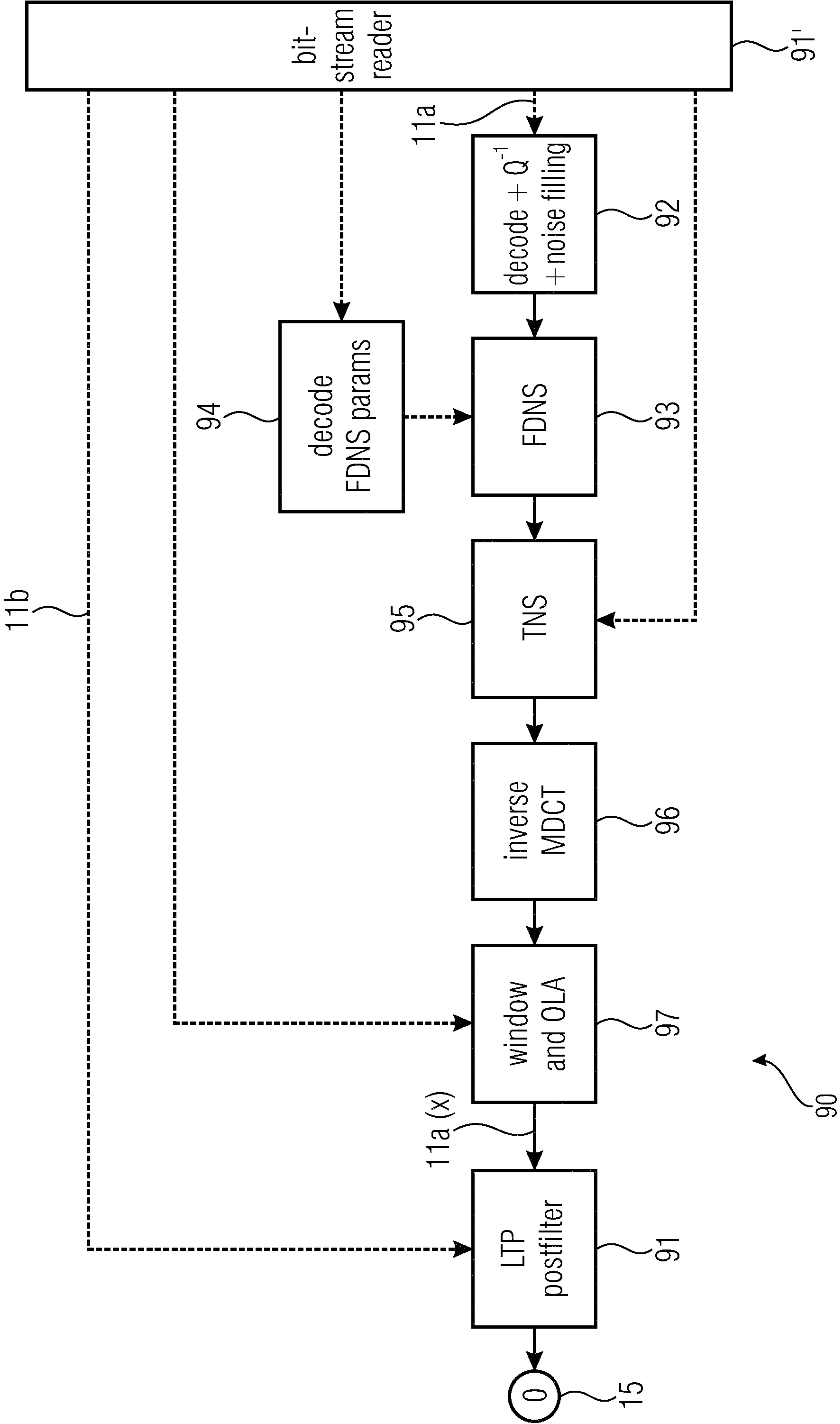


Fig. 9

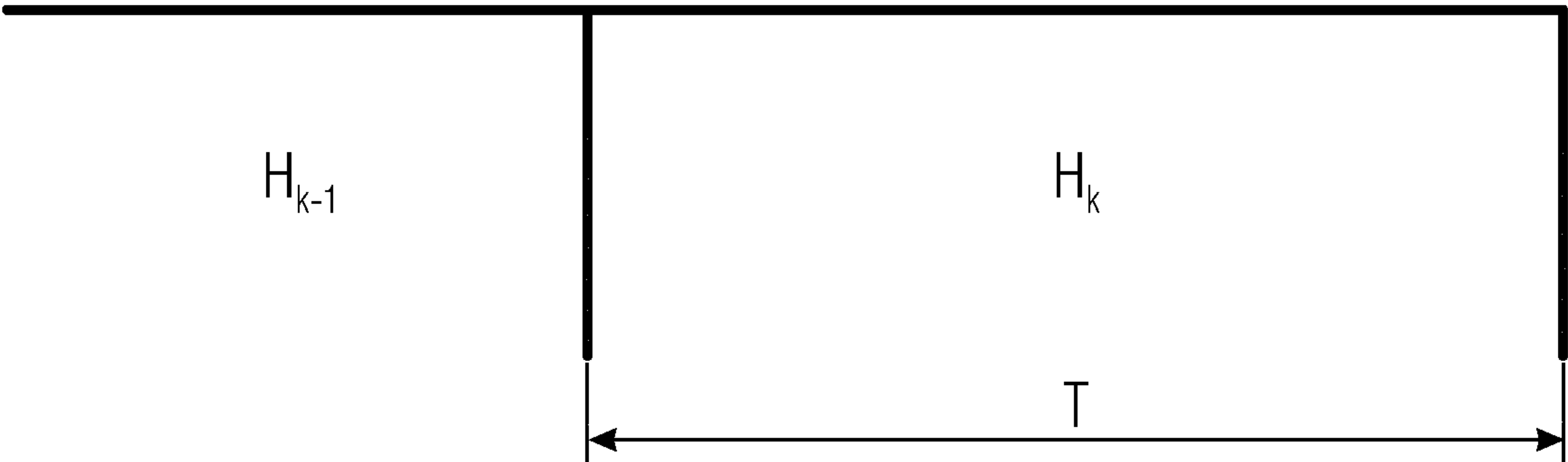


Fig. 10

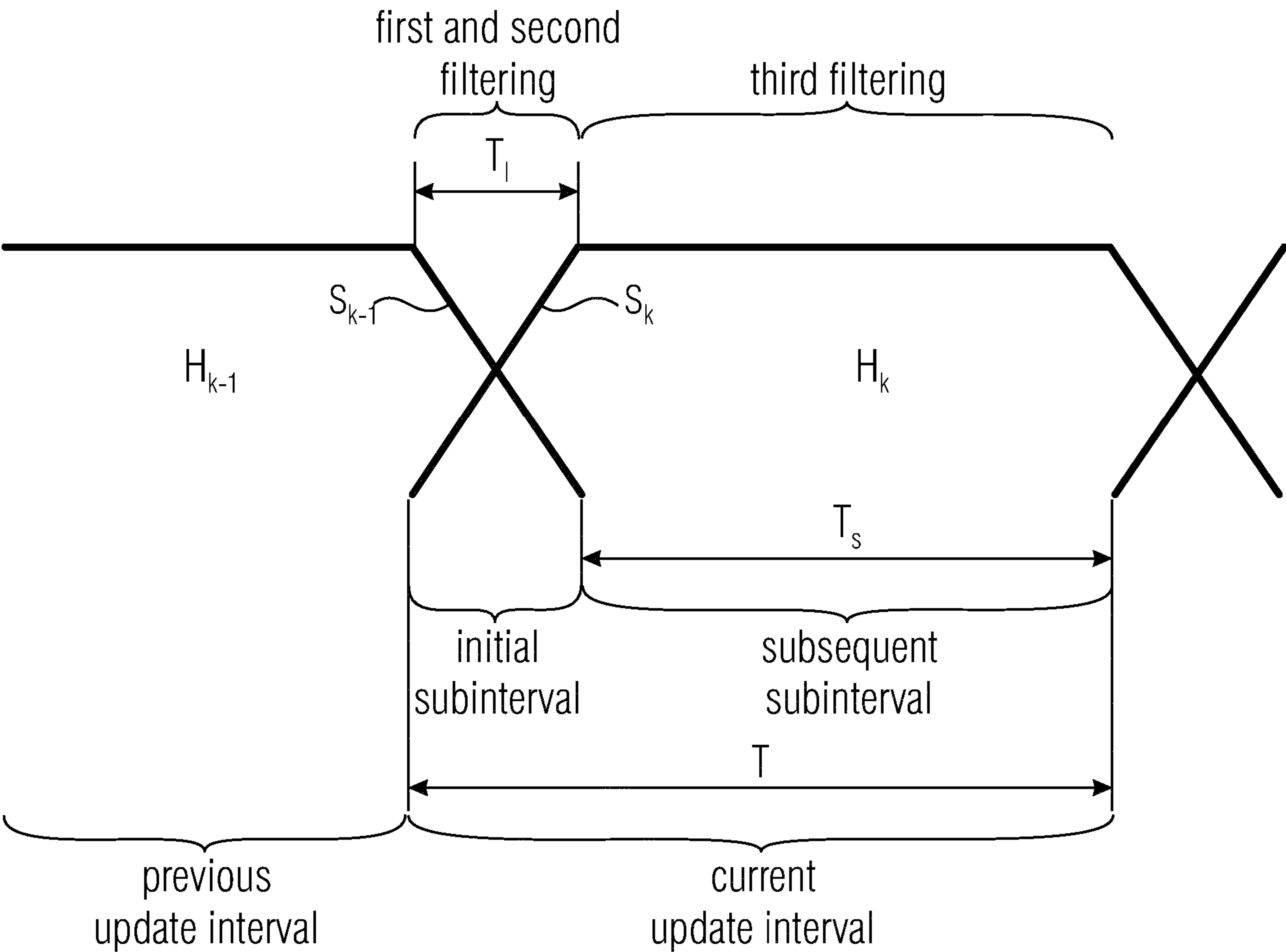


Fig. 11

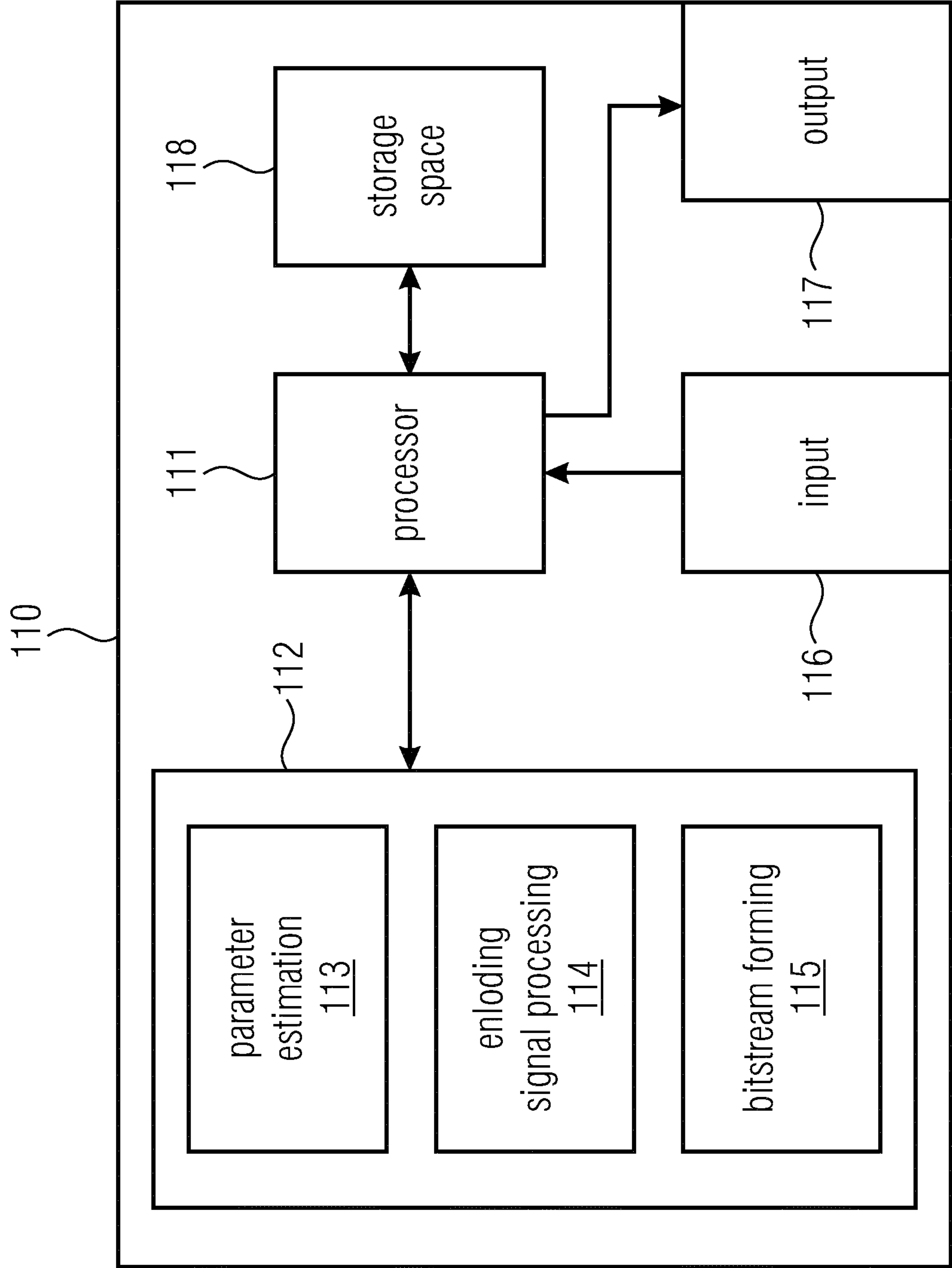


Fig. 12a

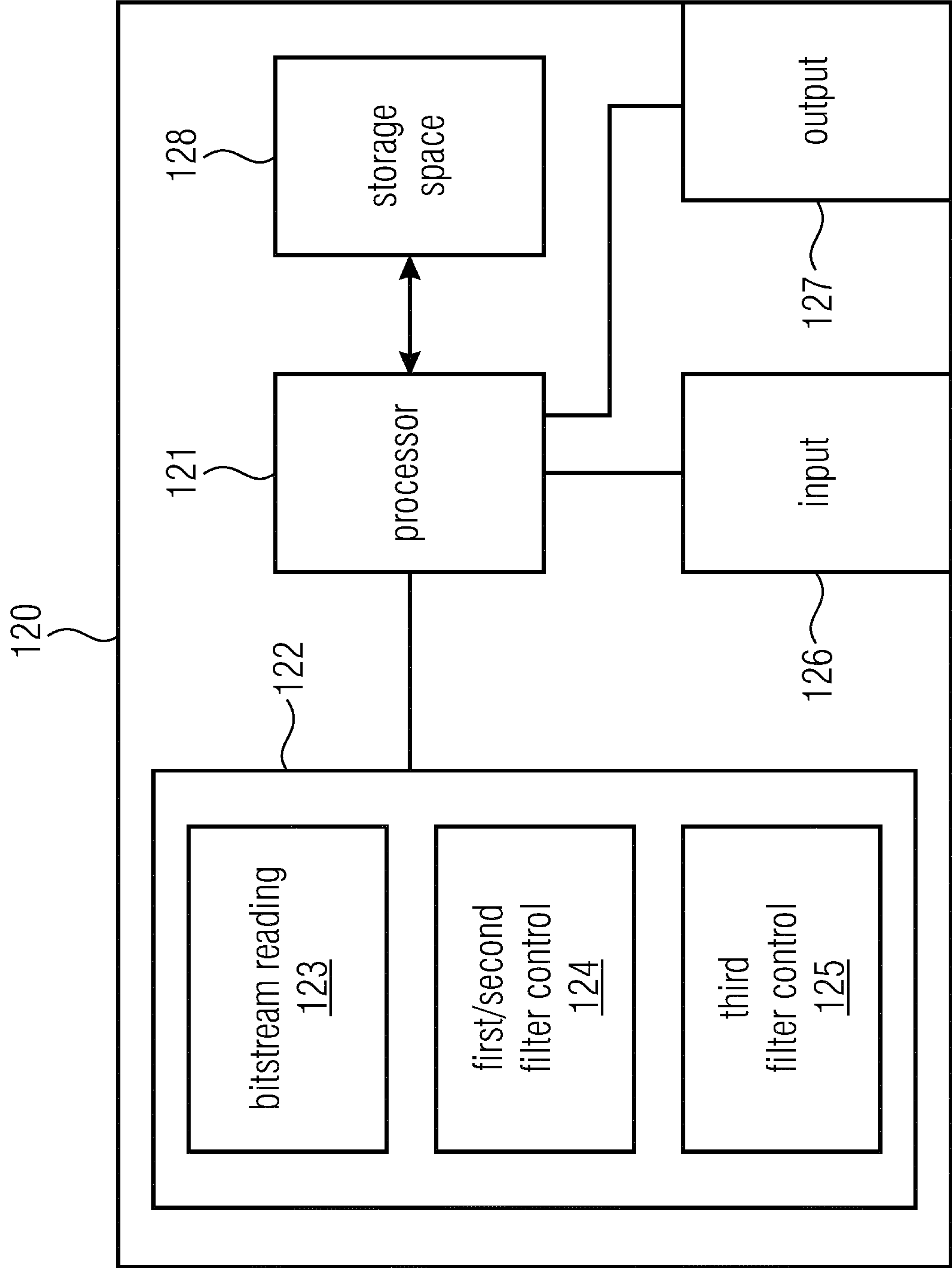
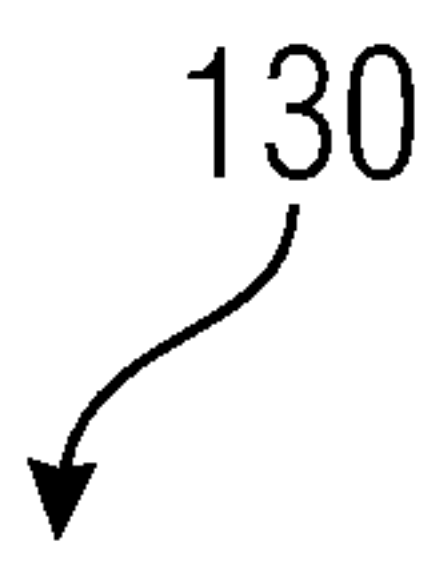


Fig. 12b



$$H(z) = \frac{1 - \alpha\beta g B(z, 0)}{1 - \beta g B(z, T_{fr}) z^{-T_{int}}}$$

g : gain value

T_{fr} : fractional part of pitch lag

T_{int} : integer part of pitch lag

$B(z, T_{fr})$: multi-tap FIR filter
depending on fractional part

$B(z, 0)$: multi-tap FIR filter
for a zero fractional part

α : first scalar value $0.6 \leq \alpha < 1.0$

β : second scalar value $0.1 \leq \beta \leq 0.5$

Fig. 13