Inference at $*$
of proof for Lemma filter_fseg:

$\vdash \forall T$:Type, P:($T \rightarrow \mathbb{B}$), L_2, L_1:(T List). fseg(T;L_1;L_2) $\Rightarrow$ fseg(T;filter(P;L_1);filter(P;L_2))

```
  by ((((((Auto·)
  CollapseTHEN (ParallelOp ( -1)·))·)
  CollapseTHEN (ExRepD·))·)

      CollapseTHEN (((((((if (first_bool T:b) then HypSubst' else RevHypSubst') ( -1)( 0))·)

  CollapseTHENA (Auto·))·)
  CollapseTHEN (((((InstConcl [filter(P;L)])

      CollapseTHEN (Auto·))·)
  CollapseTHEN (((RWO "filter_append" 0)
  CollapseTHEN (Auto·
    ))·))·))·))·

    .
```

http://www.nuprl.org/FDLcontent/p0_963683_/p12_1772177_{filter_fseg}.html