```
filter_map  THM

⊢  ∀T1,T2:Type, f:(T1→T2), Q:(T2→𝔹), L:T1 List.
   filter(Q;map(f;L)) = map(f;filter(Q o f;L))
  by InductionOnList THEN Reduce 0 THEN Auto

     THEN SplitOnConclITE THEN Auto THEN Reduce 0
THEN EqCD THEN Auto

END
```