```
mapoutl_append  THM

⊢  ∀A,B:Type, L1,L2:(A+B) List.
   mapoutl(L1 @ L2) ~ (mapoutl(L1) @ mapoutl(L2))
  by InductionOnList THEN (Reduce 0) THEN (Analyze 0) THEN (Analyze 4)
     THEN
     (Reduce 0)
     THEN
     EasyHyp
     THEN
     Analyze
     THEN
     EasyHyp
END
```