```
closed_tapp  THM

⊢  ∀t1,t2:Term.
   closed_term(t1 t2) ⟺ closed_term(t1) & closed_term(t2)
  by Unfold `closed_term` 0 THEN
Unfold `term_free_vars` 0 THEN

     Reduce 0 THEN
Fold `term_free_vars` 0

     THEN RWW "append_is_nil" 0
THEN Auto
END
```