```
fun_eq_lemma  THM

⊢  ∀'a:S, f:('a→𝔹), x1,x2:'a. f(x1) & ¬f(x2) ⇒ ¬x1 = x2
  by RewriteOfThm
     Thm* ∀'a:S.
          all
          (λf:'a → hbool. all
                          (λx1:'a. all
                                   (λx2:'a. implies
                                            (and(f(x1),not(f(x2)))
                                            ,not(equal(x1,x2))))))
     {hfun_eq_lemma}
     (SimpsetC [‘hol_to_nuprl‘;‘bequal‘])
END
```