```
hnum_axiom  THM

⊢  ∀'a:S.
   all
   (λe:'a. all
           (λf:'a → hnum → 'a. exists_unique
                                (λfn1:hnum
                                 → 'a. and
                                        (equal(fn1(0),e)
                                        ,all
                                         (λn:hnum. equal
                                                    (fn1(suc(n))
                                                    ,f(fn1(n),n)))))))
  by HOL "hnum_axiom"
END
```