```
his_num_rep_wd  THM

⊢  all
|  (λm:hind. equal
|            (is_num_rep(m)
|            ,all
|             (λP:hind → hbool. implies
|                                (and
|                                 (P(zero_rep)
|                                 ,all
|                                  (λn:hind. implies
|                                             (P(n)
|                                             ,P(suc_rep(n)))))
|                                ,P(m)))))  by HN THEN StrongAuto
|
1. m : ℕ
⊢  (is_num_rep(m))
   =b (∀bP:ℕ→𝔹
         ((P(zero_rep))∧2(∀bn:ℕ. (P(n))⇒2(P(suc_rep(n)))))⇒2(P(m)))
  by Unab [‘his_num_rep‘] THEN Simp THEN StrongAuto
END
```