```
hsuc_rep_def  THM

⊢  equal
|  (suc_rep
|  ,select(λf:hind → hind. and(one_one(f),not(onto(f)))))
| by HN THEN StrongAuto THEN Unab [‘hsuc_rep‘] THEN HN THEN StrongAuto
|    THEN
|    Try (Complete (Unfold ‘label‘ 0))
|
⊢  (λx:ℕ. (@f:ℕ→ℕ. (one_one(ℕ;ℕ;f) & ¬onto(ℕ;ℕ;f)))(x))
|  =
|  (@_b f:ℕ→ℕ. ((↓_b one_one(ℕ;ℕ;f))∧_2¬_2(↓_b onto(ℕ;ℕ;f))))
| by (Ext THEN HN) THEN StrongAuto
|    THEN
|    Try (Complete (Unfold ‘label‘ 0))
|    THEN
|    Try (Complete (Unfold ‘label‘ 0))
|
1. x : ℕ
⊢  (@f:ℕ→ℕ. (one_one(ℕ;ℕ;f) & ¬onto(ℕ;ℕ;f)))(x)
   =
   (@_b f:ℕ→ℕ. ((↓_b one_one(ℕ;ℕ;f))∧_2¬_2(↓_b onto(ℕ;ℕ;f))))(x)
  by Unab [‘bchoose‘] THEN Simp
     THEN
     Try (Complete (Unfold ‘label‘ 0))
END
```