```
card_nat_vs_nat_tuples  THM

⊢  (k:ℕ+ × ℕk→ℕ) ∼ ℕ
| by FwdThru:
|    Thm*  ∀B,B':(A→Type).
|          (∀x:A. B(x) ∼ B'(x)) ⇒ ((x:A×B(x)) ∼ (x:A×B'(x)))
|    {product_functionality_wrt_one_one_corr_B}
|    on [ Thm*  ∀k:ℕ+. (ℕk→ℕ) ∼ ℕ    {card_nat_vs_nat_tuple} ]
|    THEN
|    Rewrite by Hyp:-1
|
1. (k:ℕ+ × ℕk→ℕ) ∼ (ℕ+ × ℕ)
⊢  (ℕ+ × ℕ) ∼ ℕ  by Rewrite by Thm*  ℕ+ ∼ ℕ    {nat_plus_ooc_nat}
|
⊢  (ℕ×ℕ) ∼ ℕ  by Thm*  (ℕ×ℕ) ∼ ℕ    {card_nat_vs_nat_nat}  Asserted
END
```