```
decidable__spread  THM

⊢  ∀P:(T→U→Prop).
|  (∀x:T, y:U. Dec(P(x,y))) ⇒ (∀p:(T×U). Dec(p/l,r. P(l,r)))
| by UnivCD
|
1. T : Type
2. U : Type
3. P : T→U→Prop
4. ∀x:T, y:U. Dec(P(x,y))
5. p : T×U
⊢  Dec(p/l,r. P(l,r))  by Analyze 5 THEN Reduce 0
|
5. p1 : T
6. p2 : U
⊢  Dec(P(p1,p2))  by HypBackchain THEN Trivial
END
```