```
fpf-sub-join-right  THM

⊢  ∀A:Type, B:(A→Type), eq:EqDecider(A), f,g:a:A fp-> B(a).
|  f || g ⇒ g ⊆ f ⊕ g
| by Auto THEN Unfolds [‘fpf-sub‘] 0
|    THEN
|    Try
|    (RWO
|     Thm* ∀B:(A→Type), eq:EqDecider(A), f,g:a:A fp-> B(a), x:A.
|          x ∈ dom(f ⊕ g)
|          ⇒
|          f ⊕ g(x) = if x ∈ dom(f)→ f(x) else g(x) fi ∈ B(x)
|     {fpf_DASH_join_DASH_ap}
|     0)
|    THEN
|    Try
|    ((RWO
|      Thm* ∀B:(A→Type), eq:EqDecider(A), f,g:a:A fp-> B(a), x:A.
|           x ∈ dom(f ⊕ g) ⟺ x ∈ dom(f) ∨ x ∈ dom(g)
|      {fpf_DASH_join_DASH_dom}
|      0)
|     THEN
|     OrRight)
|    THEN
|    SplitOnConclITE
|    THEN
|    Reduce 0
|
.....truecase .....
1. A : Type
2. B : A→Type
3. eq : EqDecider(A)
4. f : a:A fp-> B(a)
5. g : a:A fp-> B(a)
6. f || g
7. x : A
8. x ∈ dom(g)
9. x ∈ dom(f)
⊢  g(x) = f(x)  by Unfold ‘fpf-compatible‘ -4 THEN InstHyp [x] -4
END
```