comp-atom-ap^{0,22}

comp-atom-ap(g;f;x;a)
$\equiv_{\text{def}}$ let $f' = \lambda a.g \circ f$ in
let $x' = \lambda a.x$ in
let $F = \lambda b,c.\ f'(b,x'(c))$ in
let $L =$ atoms-in(F) in
let $b =$ new-atom(($a.L$)) in
if $F(b,a) =_2 a \in$ Atom$\rightarrow$ inr($f'(b)$)
; $F(a,b) =_2 a \in$ Atom$\rightarrow$ inl($\lambda f.g(f(x'(b))))$
else inr(λx.hd(list-diff(AtomDeq;monitor(($f'(b,x)$));$b.L$))) fi

http://www.cs.cornell.edu/Info/Projects/NuPrl/FDLcontent/p0_286125_/p42_384503_{comp-atom-ap}.html