

## **action-rename\_wf<sup>0,22</sup>**

$\forall dec:(\text{Knd} \rightarrow \text{Type}), ra, rt:(\text{Id} \rightarrow \text{Id}), rainv, rtinv:(\text{Id} \rightarrow (\text{Id} + \text{Unit})).$   
 $(\forall tg_1, tg_2:\text{Id}. rtinv(tg_2) = \text{inl}(tg_1) \Rightarrow tg_2 = rt(tg_1))$   
 $\Rightarrow (\forall a_1, a_2:\text{Id}. rainv(a_2) = \text{inl}(a_1) \Rightarrow a_2 = ra(a_1))$   
 $\Rightarrow (\forall a:\text{Action}(dec). \text{action-rename}(rainv;rtinv;a) \in \text{Action}(\lambda k. dec(\text{kind-rename}(ra;rt;k))))$