$$(1,2,\ldots,a_{1},\ldots,1',2',\ldots,a_{n})$$

$$\downarrow^{\rho'}$$

$$(1',2',\ldots,a_{\rho^{-1}(1)},\ldots,1',2',\ldots,a_{\rho^{-1}(n)})$$

$$\downarrow^{(\tau\circ_{a_{\rho^{-1}(1)},\ldots,a_{\rho^{-1}(n)}}(\sigma_{\rho^{-1}(1)},\ldots,\sigma_{\rho^{-1}(n)}))}$$

$$(\sigma'_{\rho^{-1}(\tau^{-1}(1))}(1),\ldots,\sigma'_{\rho^{-1}(\tau^{-1}(1))}(a_{\rho^{-1}(\tau^{-1}(1))}),\ldots,\sigma'_{\rho^{-1}(\tau^{-1}(n))}(1),\ldots,\sigma'_{\rho^{-1}(\tau^{-1}(n))}(a_{\rho^{-1}(\tau^{-1}(n))}))$$