```
N_{u_i_ c_j_ →k_}[ω_. 𝔼[Q_]] := CF[
  ω 𝔼[e^{-γ} β u_k + γ c_k + (Q /. c_j | u_i → 0)] /. {γ → ∂_{c_j} Q, β → ∂_{u_i} Q}];
N_{w_i_ c_j_ →k_}[ω_. 𝔼[Q_]] := CF[
  ω 𝔼[e^{γ} α w_k + γ c_k + (Q /. c_j | w_i → 0)] /. {γ → ∂_{c_j} Q, α → ∂_{w_i} Q}];
N_{w_i_ u_j_ →k_}[ω_. 𝔼[Q_]] := CF[
  ν ω 𝔼[-b_k ν α β + ν β u_k + ν δ u_k w_k + ν α w_k + (Q /. w_i | u_j → 0)] /.
    ν → (1 + b_k δ)^{-1} /.
   {α → ∂_{w_i} Q /. u_j → 0, β → ∂_{u_j} Q /. w_i → 0, δ → ∂_{w_i,u_j} Q}];
```