item, number, producer, consumer
p_0
τ_B broker,all,announce,produce-consume
p_1 none, *, -, -
τ_E
ag_1,broker,offer,num_1
p_2 none, num_1, ag_1, -
τ_E *,broker,offer,*
τ_B broker,ag_1,accept,num_1
p_3 bought, num_1, ag_1,-
τ_E *,broker,offer,*
τ_B broker,all,declare,forsale
p_4 forsale, num_1, -, -
ag_2,broker,request,nil
τ_E
p_5 forsale, num_1, -, ag_2
,broker,request, τ_E
broker,ag_2,grant,num_1 τ_B
p_6 sold, num_1, -, ag_2
,broker,request, τ_E
broker,all,declare,none τ_B
$\neg x, \neg y$
in p_1 to p_6
p_{4x} forsale, num_x, -, -
$\neg x$, y
τ_B broker,all,declare,forsale
τ_E ag_x,broker,offer,num_x
p_{2x} none, num_x, ag_x, -
$x, \neg y$ A_5
τ_E *,broker,offer,*
τ_B
broker,ag_x,accept,num_x
p_{3x} bought, num_x, ag_x, -
$x, \neg y$ A_5
τ_E *,broker,offer,*