```
// ----- pews specification - publish_music.pews ------

ns bank = "http:\\http://aws.amazon.com/fps/"
ns spotify = "http://ws.spotify.com/"
ns twitter = "https://dev.twitter.com/docs/api/"
ns facebook = "https://api.facebook.com/method/"

alias searchMusic = portType/search/1/track in spotify
alias selectMusic = portType/lookup/1/trackdetail in spotify
alias downloadMusic = portType/lookup/1/downloadtrack in spotify
alias listenMusic = portType/lookup/1/executetrack in spotify
alias pay = portType/proceedPayment in bank
alias sendConfirmation = portType/confirmation in bank
alias publishTwitter = portType/oauth/authenticate in twitter
alias publishFacebook = portType/lookup/1/downloadtrack in facebook

def buyToken = ?
def publishToken = ?

service buyMusic = pay . sendConfirmation

searchMusic . selectMusic .
        ( [buyToken=1](buyMusic . downloadMusic . listenMusic) +
         [buyToken=0]listenMusic) .
        ( [publishToken='twitter']publishTwitter +
         [publishToken='facebook']publishFacebook)
```

pi-pews specification — label pointing to the header line

namespace — label pointing to ns lines

operation — label pointing to alias lines

variable — label pointing to def lines

composite operation — label

path — label

path/ main process — label

```
searchMusic . selectMusic .
        ( [buyToken=1](buyMusic . downloadMusic . listenMusic) +
         [buyToken=0]listenMusic) .
        ( [publishToken='twitter']publishTwitter +
         [publishToken='facebook']publishFacebook)
```

path — label

```
def contract buyMusicContract{
  isAppliedTo: buyMusic;
  requires: name == ?? && password = ?? &&
           cardName == ? && cardNumber = ??;
    (onFailureDo: call(buyMusic));
  ensures : notification == 'payment ok -
              download authorized';
       paymentStatus == true;
    timeConstraint : meet(pay,sendConfirmation);
```

contract definition — label

pre-condition — label

post-condition — label

time constraint — label