Inherits the connection list of the original device after splitting a large symbol into several smaller symbols (gates)

RUN make-symbol-device-package-bsdl.ulp can create symbols automatically. In case the symbol's size will be too big for a schematic you can use *connect-device-split-symbol.ulp*. The connect list of the device will be inherited. It's important that all the pin names remain unchanged. *connect-device-split-symbol.ulp* takes the connect list from the original device and modifies the gate names and the according pin names.

This works as follows:

1. Create the Device with *make-symbol-device-package-bsdl.ulp*

2. Now edit the according symbol

3. Use GROUP and CUT in order to copy the part of the symbol which should be copied into a new symbol (gate)

4. EDIT symbolname.SYM.

5. PASTE – places the pins in the new symbol

6. load the original symbol again – EDIT symbolname.SYM

7. Repeat steps 4 to 8 as often as needed to create all the symbols the new device shall consist of. Now create a new device.

8. Add all the smyols in the new device and name the gates

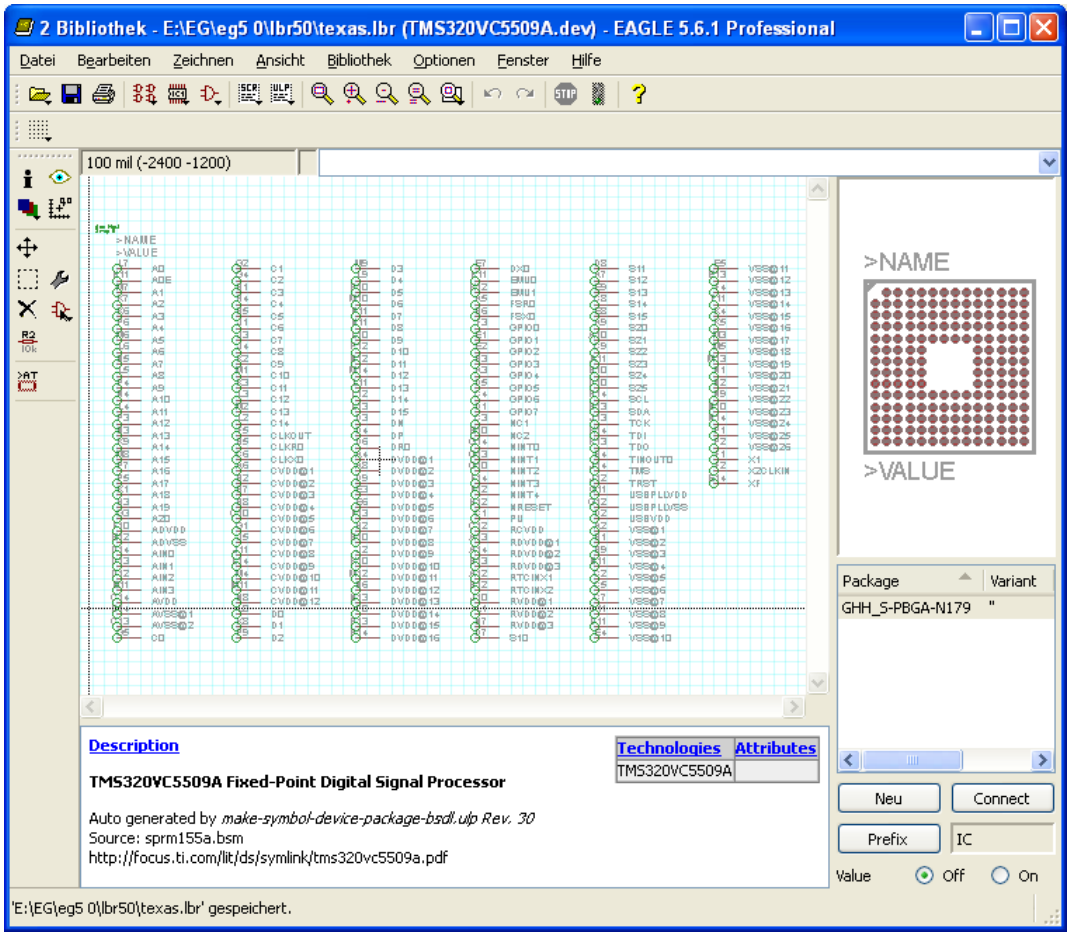
9. Create a new package variant – [New] button

10. RUN connect-device-split-symbol.ulp

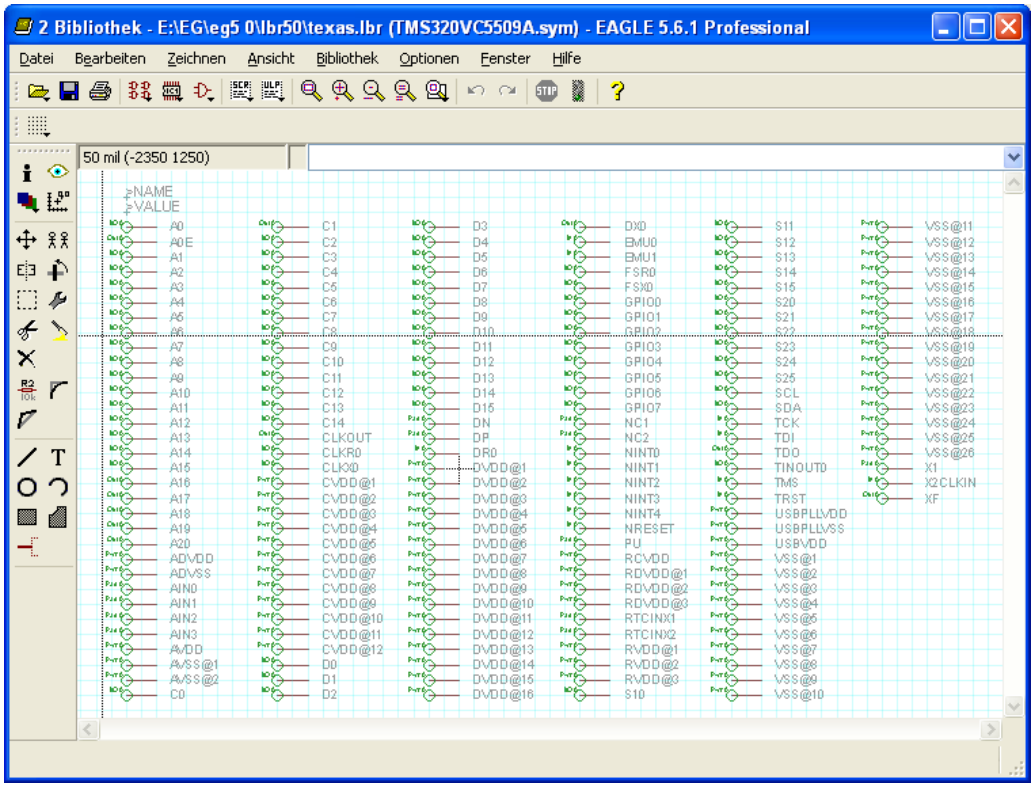
11. Select the orignal device you created with make-symbol-device-package-bsdl.ulp before. The connect list will be adjusted to the new situation in the new device

All this now decribed with images

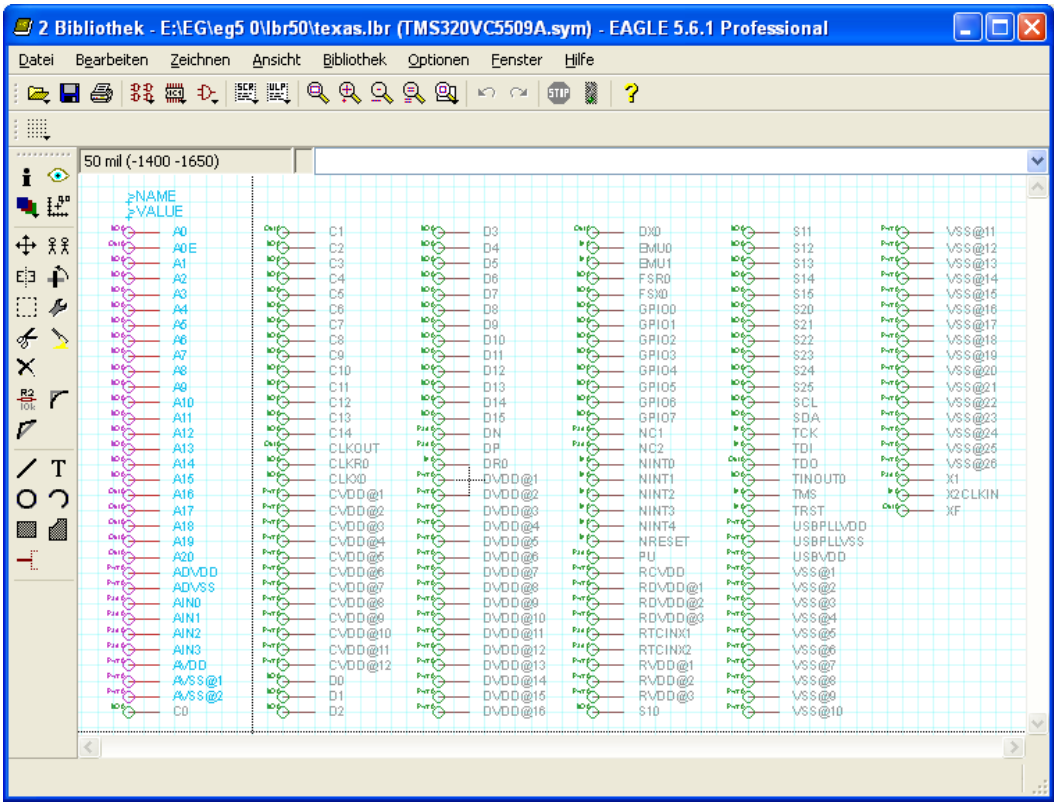
1. The automatically generated device



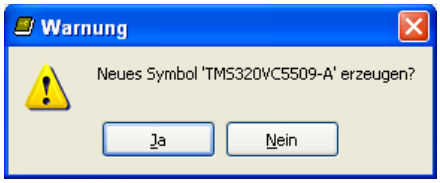
2. Load the symbol now



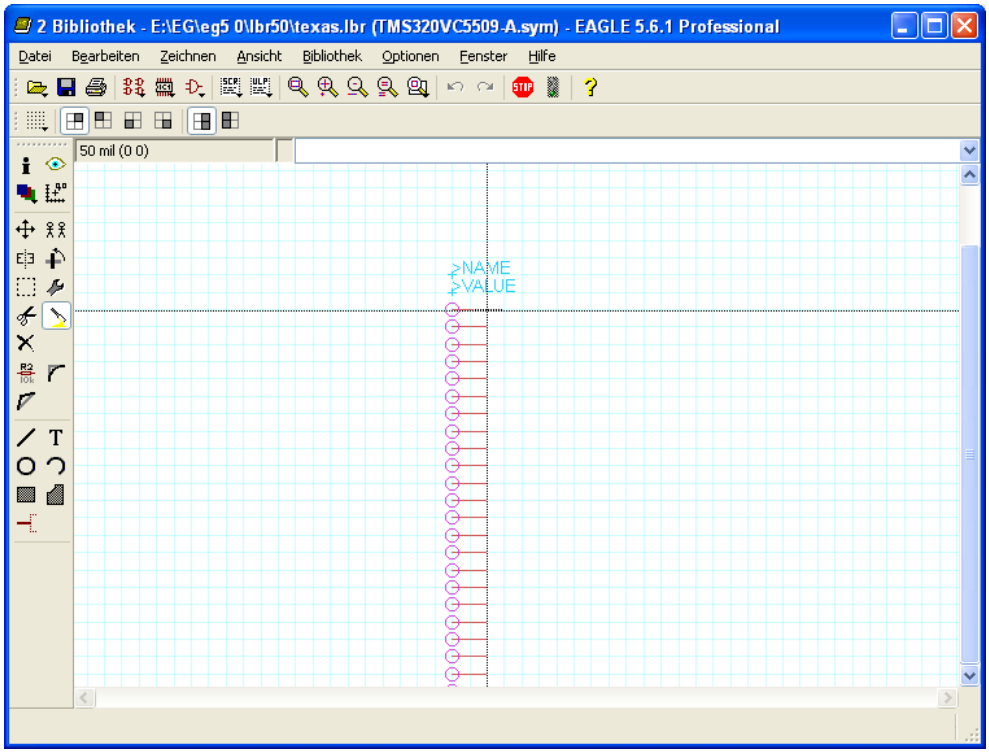
3. Select a certain area with group and use CUT to put it into the paste buffer



4. Create a new symbol – EDIT TMS320VC5509-A.SYM.

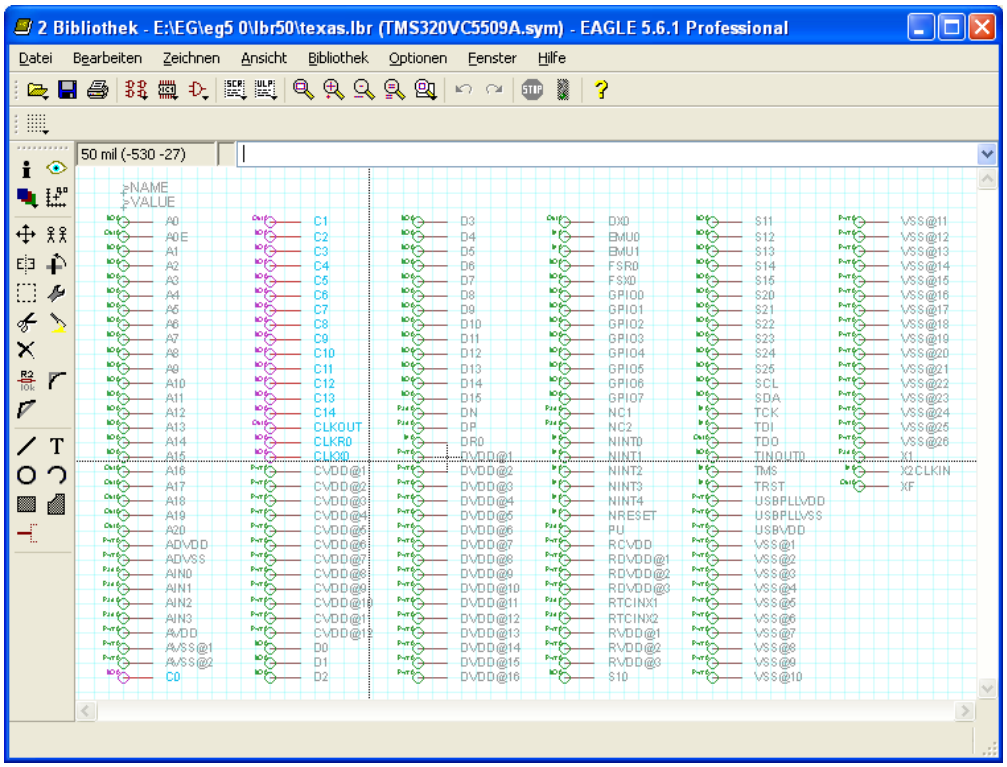


5. Use PASTE to place the pins

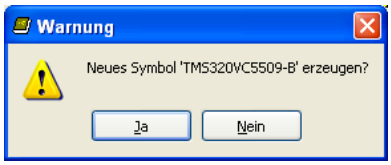


6. Load the „source“ symbol again. EDIT TMS320VC5509A.SYM

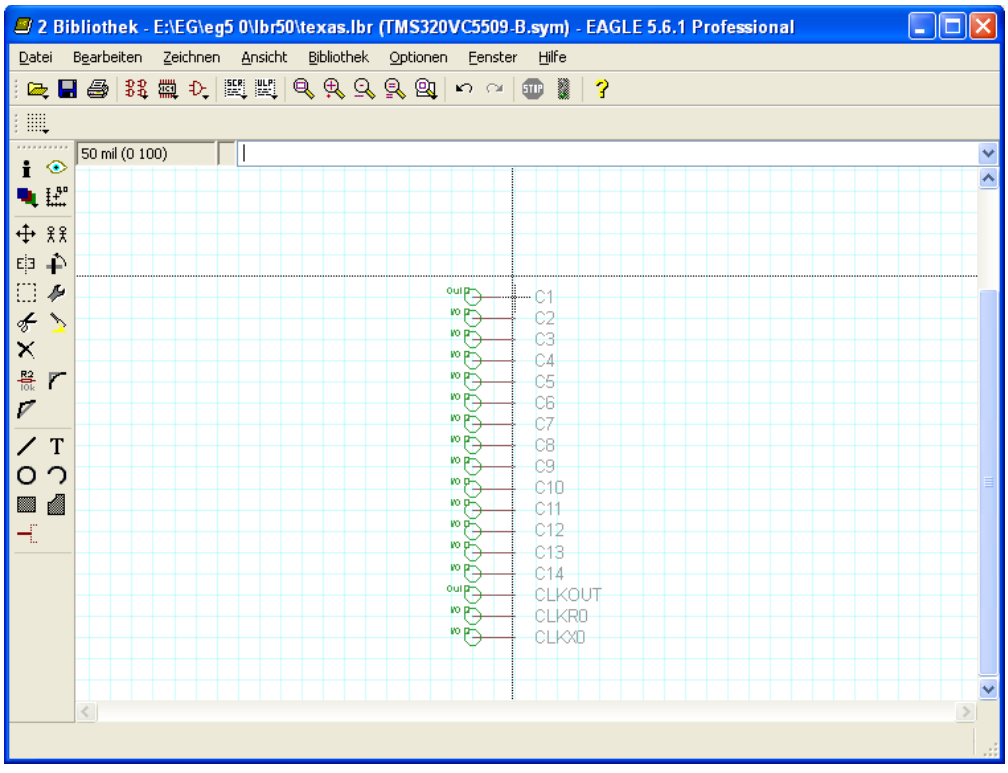
3.1 Use GROUP …. ,select a certain area and use CUT again



4.1 Create a new symbol – EDIT TMS320VC5509-B.SYM

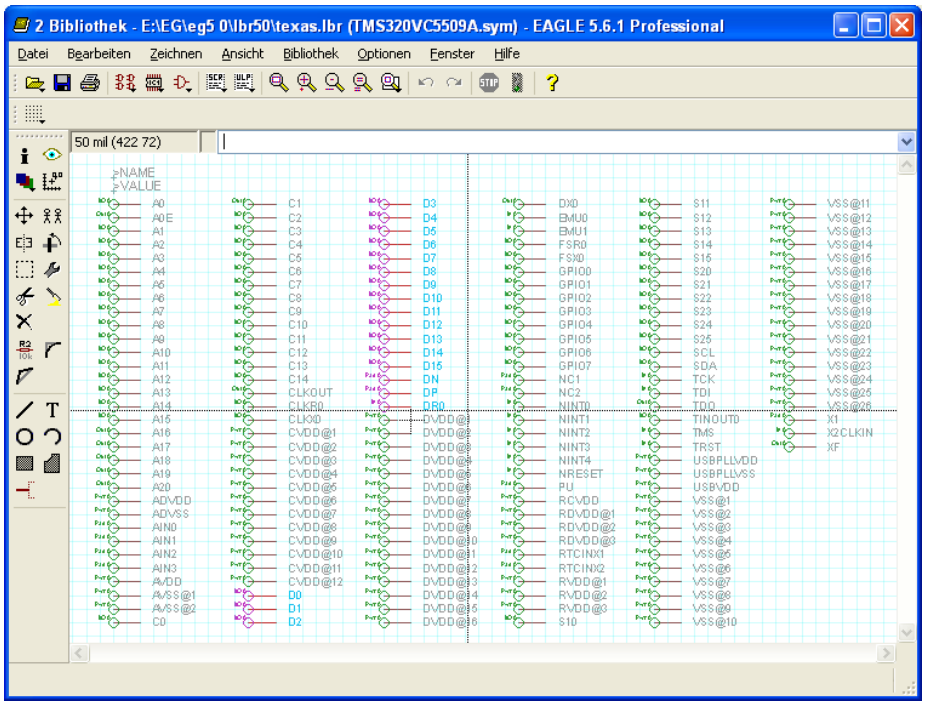


5.1 Paste the buffer content

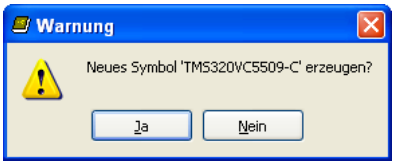


6. Load the „source“ symbol again – EDIT TMS320VC5509A

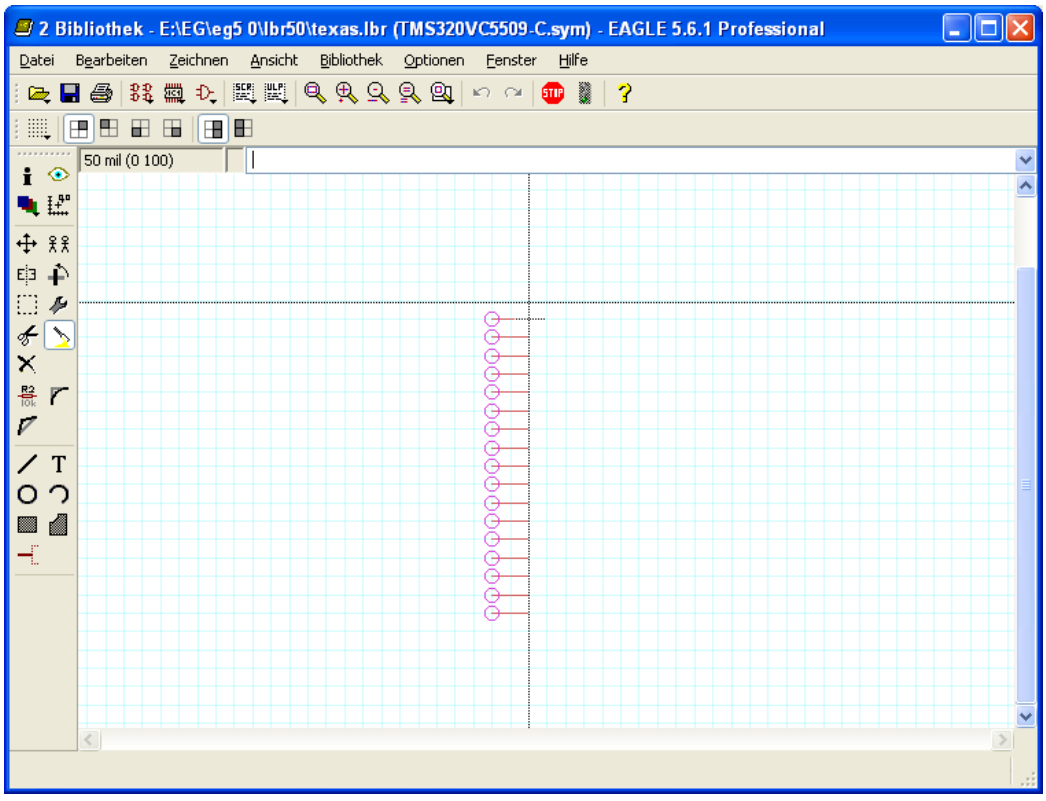
3.2 Again GROUP …. for marking certain pins and CUT



4.2 Create a new symbol – EDIT TMS320VC5509-C.SYM

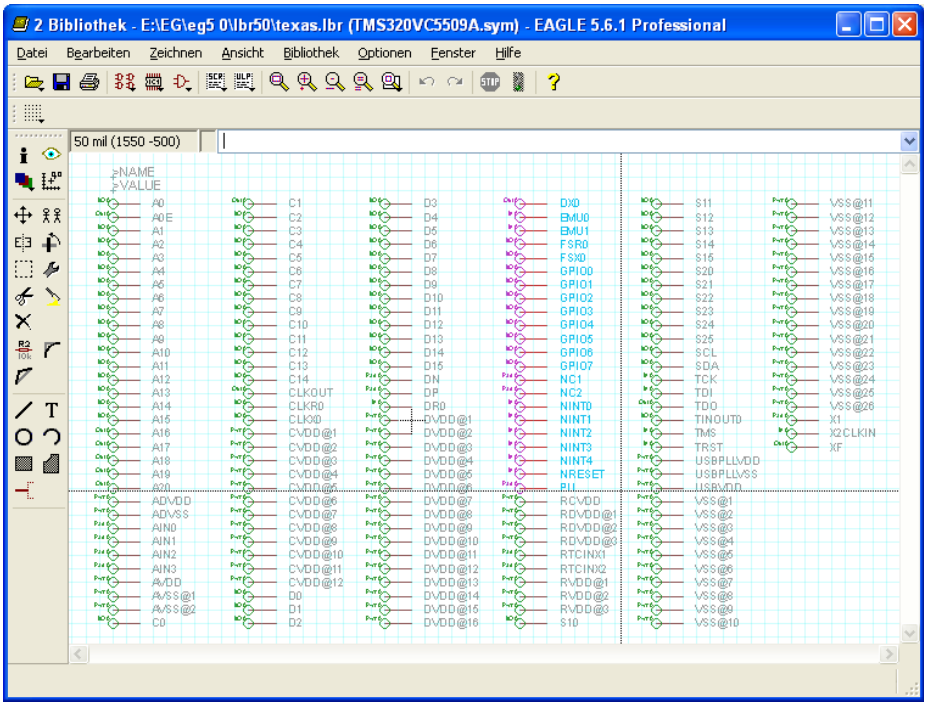


5.2 PASTE the buffer

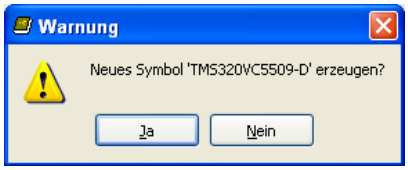


6. Load the „source“ symbol again – EDIT TMS320VC5509A

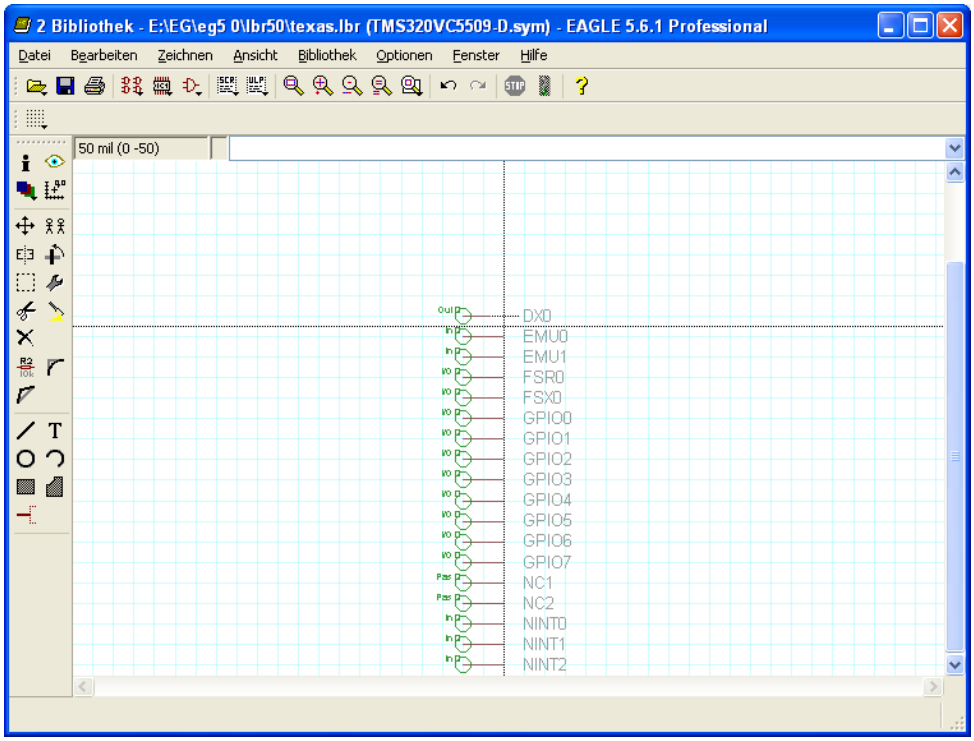
3.3 And now again GROUP and CUT



4.3 Creat a new symbol – EDIT TMS320VC5509-D.SYM

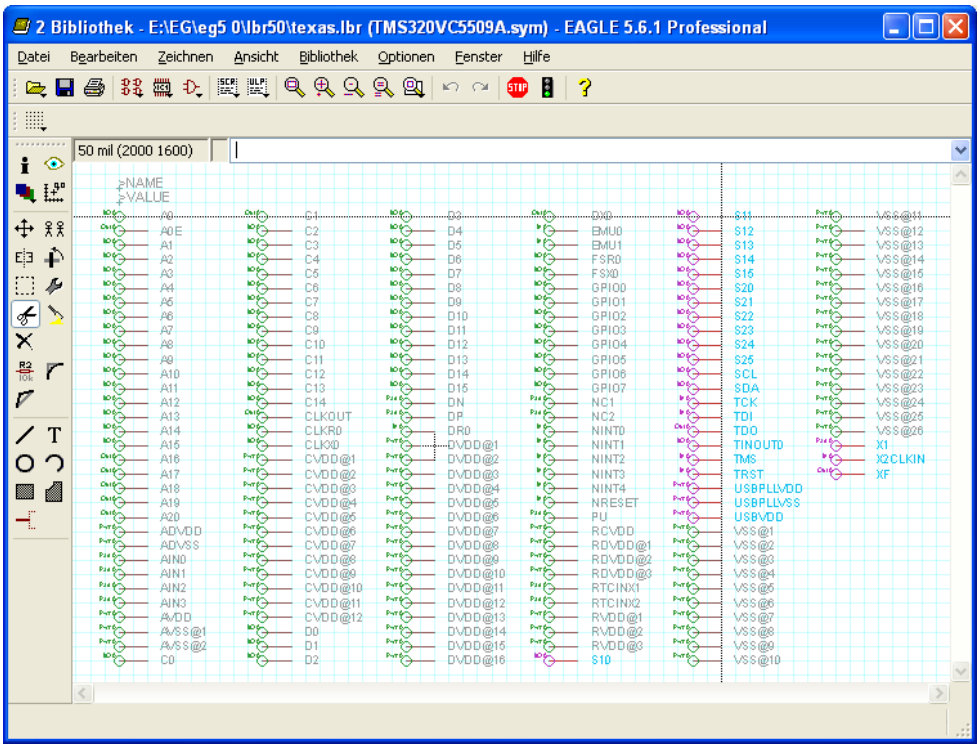


5.3 PASTE the buffer

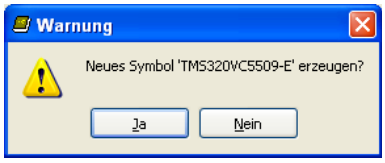


6. Load the „source“ symbol – EDIT TMS320VC5509A

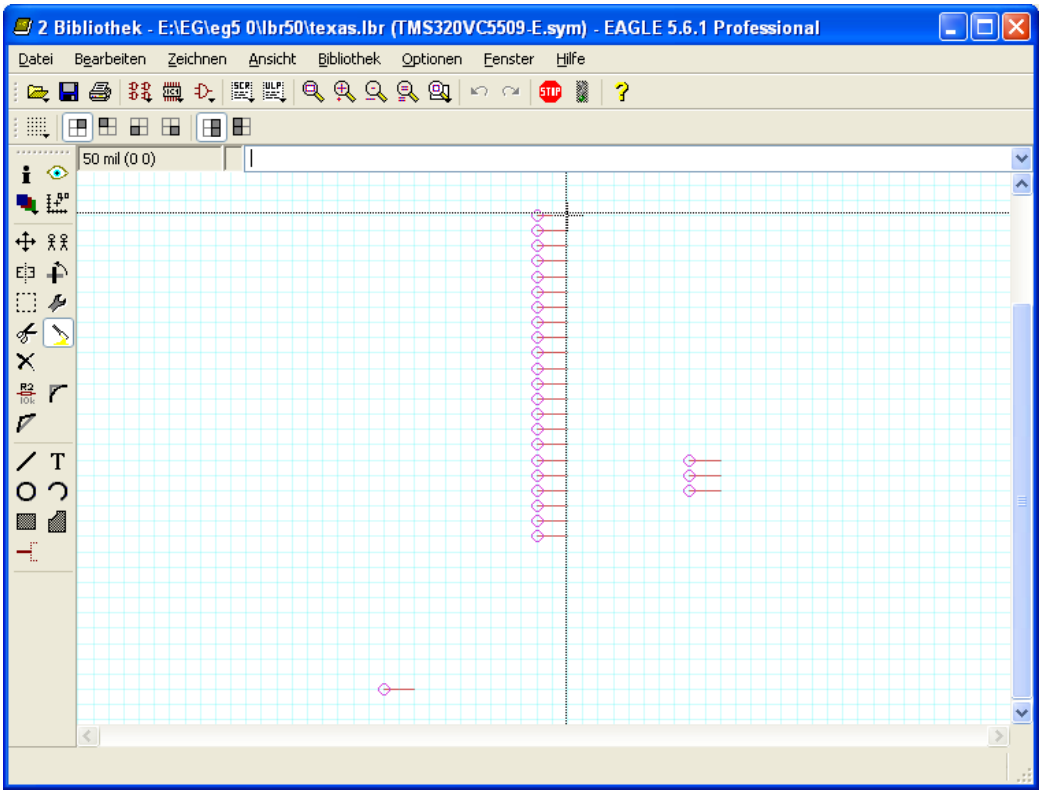
3.4 Now again GROUP and CUT



4.4 Create new symbol – EDIT TMS320VC5509-E.SYM

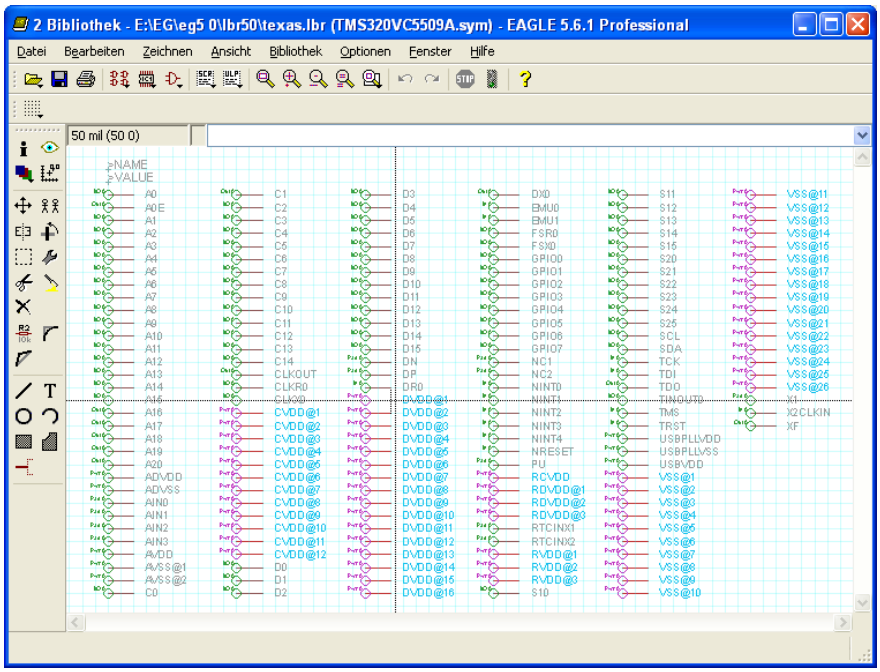


5.4 And PASTE

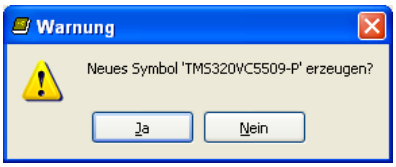


6. Load the „source“ symbol – EDIT TMS320VC5509A

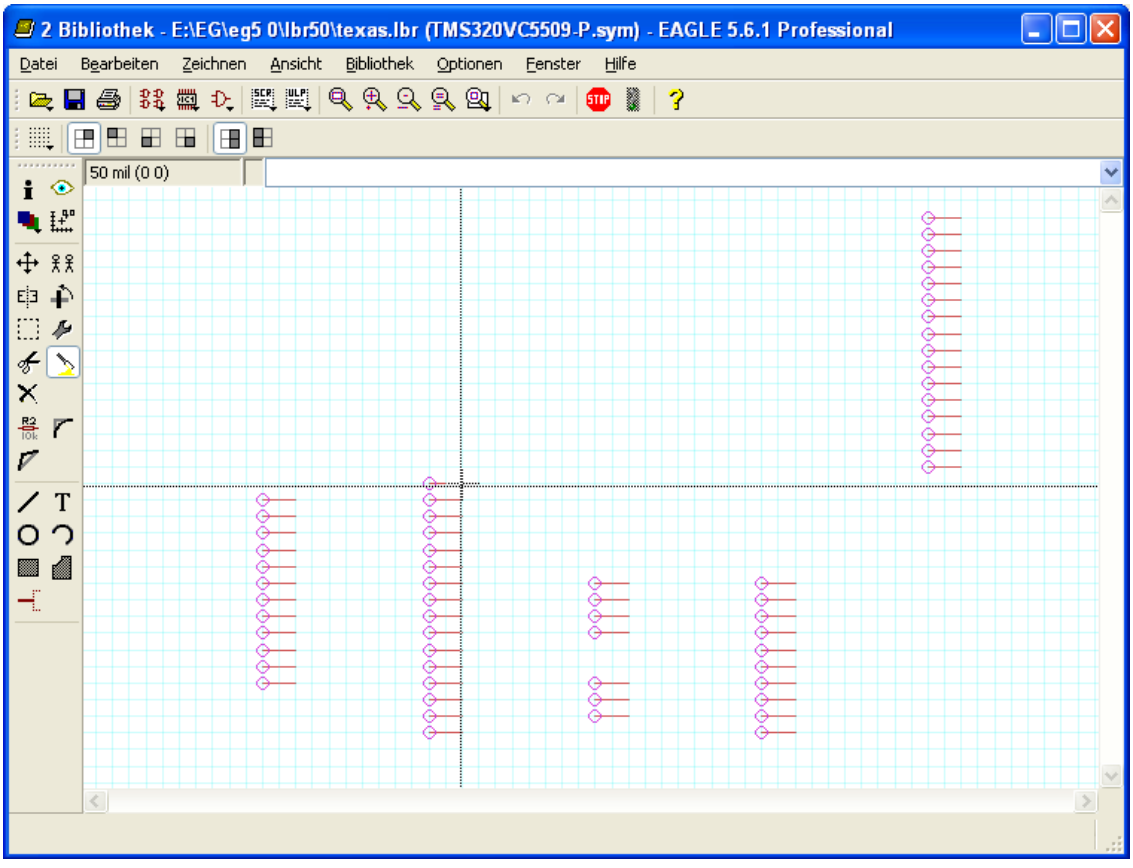
3.5 GROUP and CUT …..



4.5 New symbol – EDIT TMS320VC5509-P.SYM

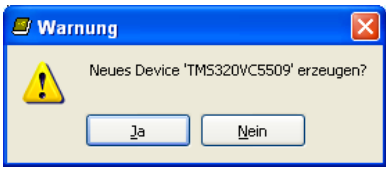


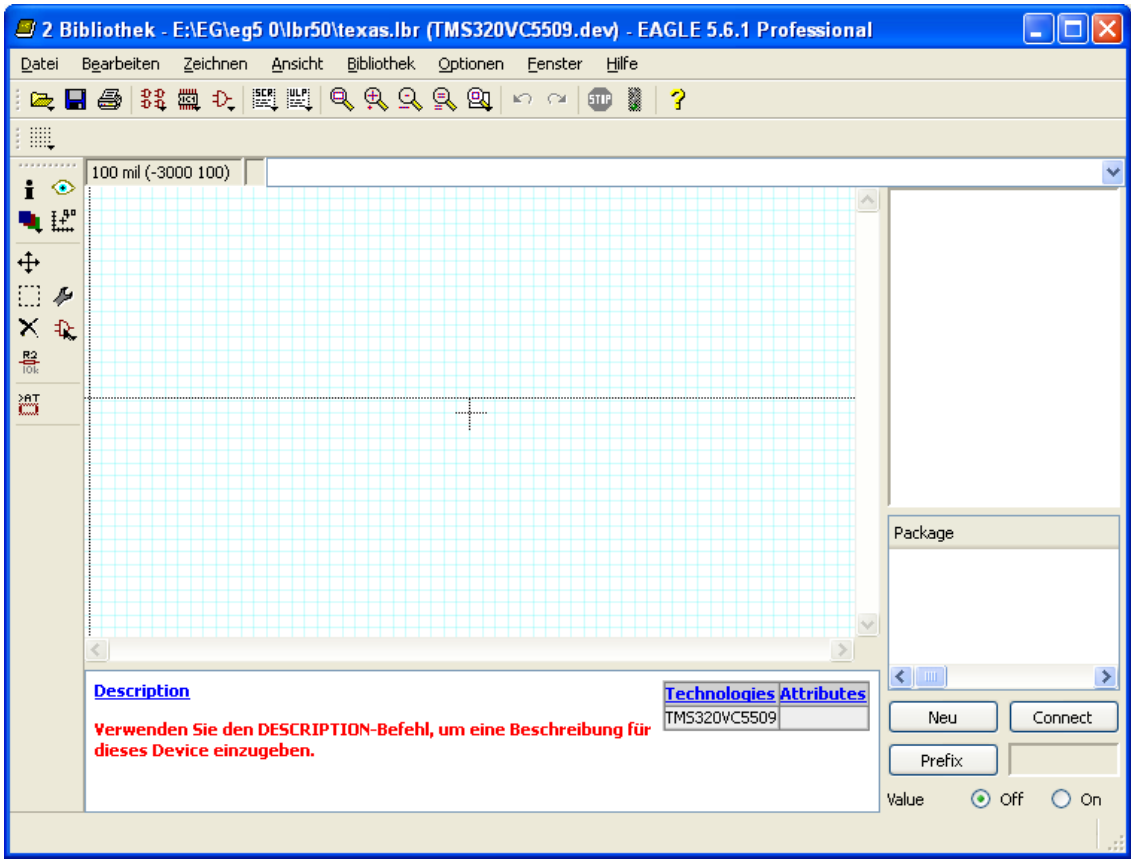
5.5 PASTE the buffer



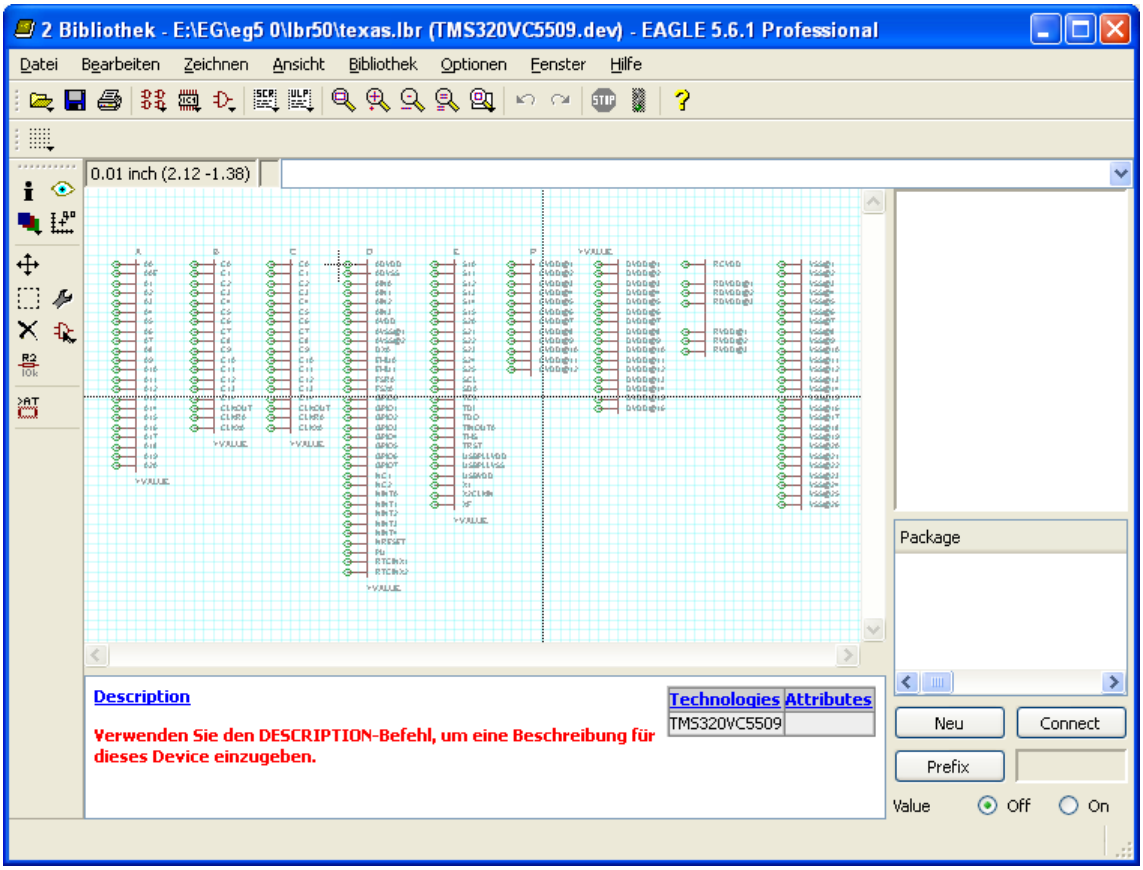
Verify and modify the symbols and add for example >NAME and >VALUE texts

7. Create a new device now – EDIT TMS320VC5509.DEV anlegen.

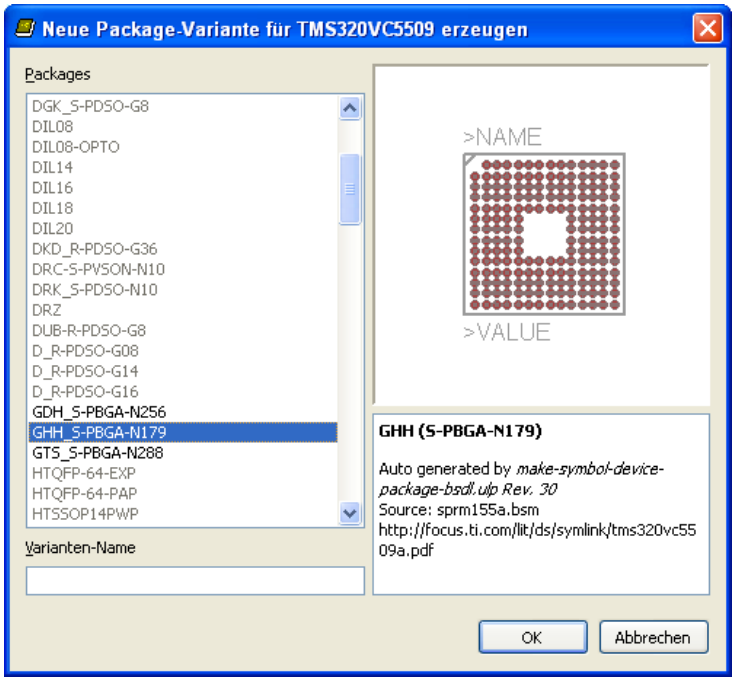




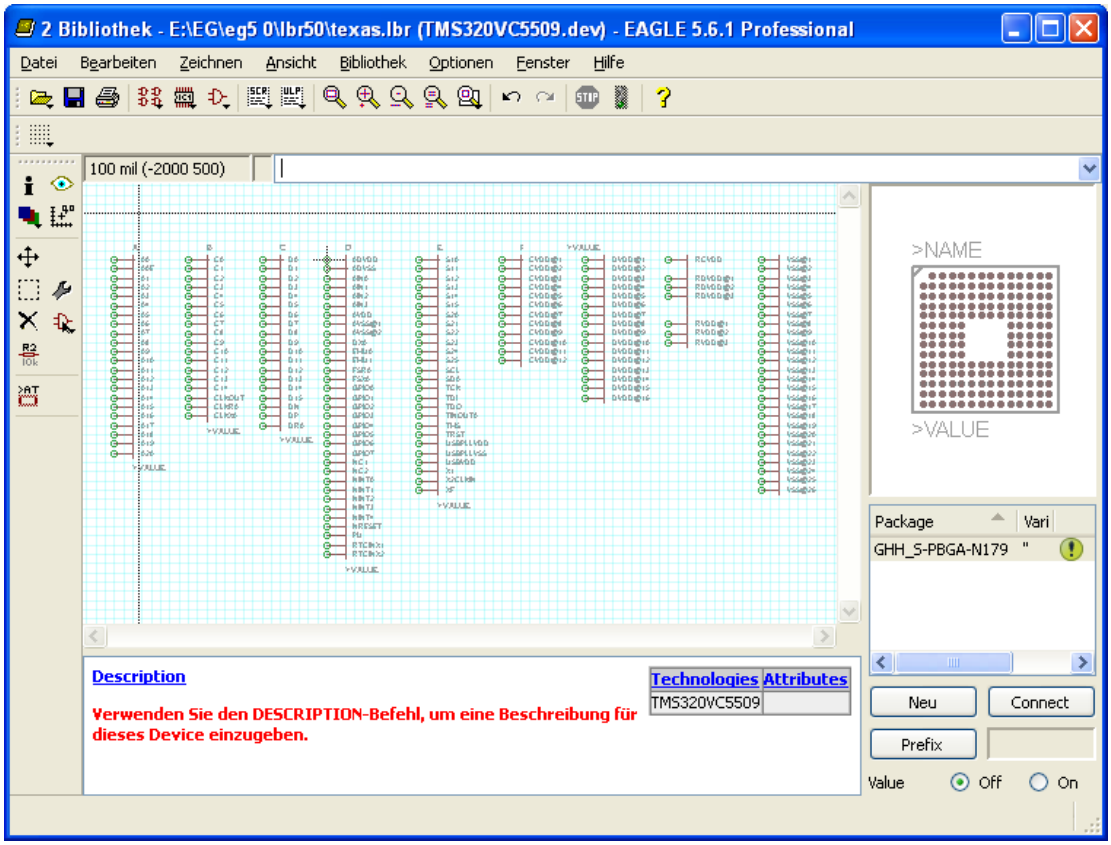
8. ADD all the symbols (gates) we created before



9. Create a package variant

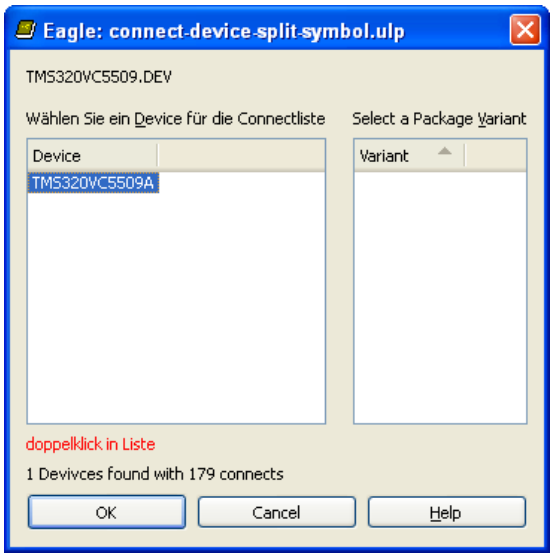


The yellow icon tells you that the CONNECT command has not been executed correctly yet.

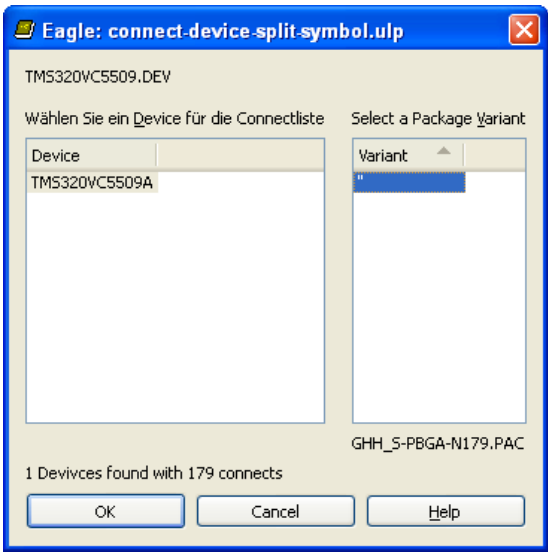


10. RUN connect-device-split-symbol.ulp

11. Select the orignally cerated device



select the package variant



The connection list will be inherited.