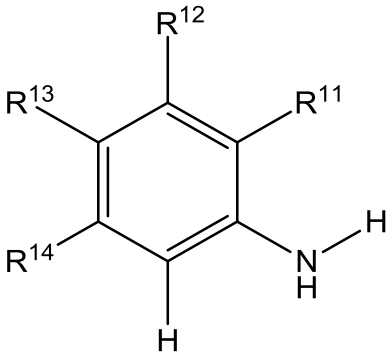
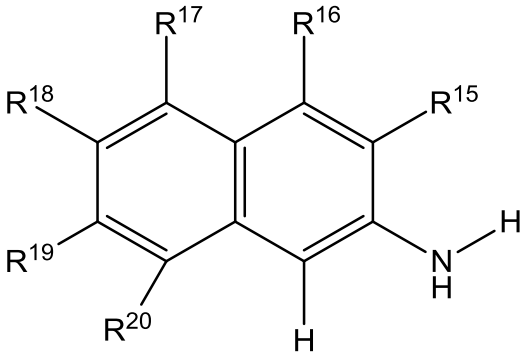
Claims

1. Process for preparing 2,2'-diaminobiaryls, comprising the process steps of:
a) reacting a compound of the formula (**IVa**) or (**Va**):

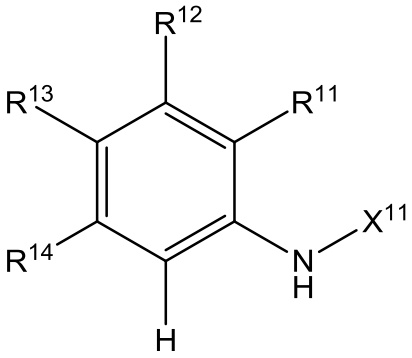


(**IVa**)

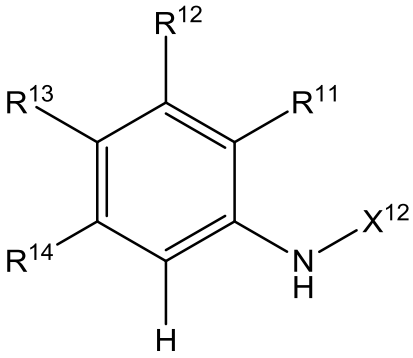


(**Va**)

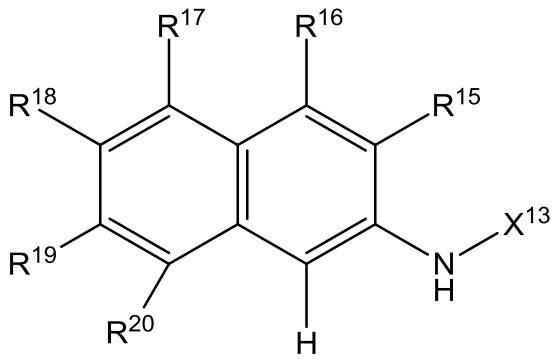
with reaction of (**IVa**) to give (**IVb1**) or (**IVb2**), or
of (**Va**) to give (**Vb**):



(**IVb1**)

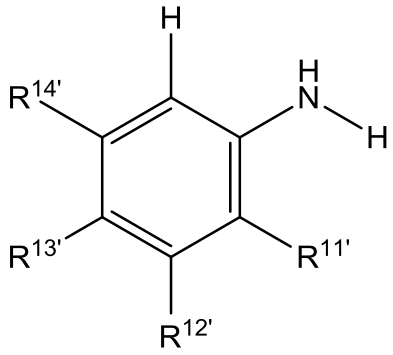


(**IVb2**)

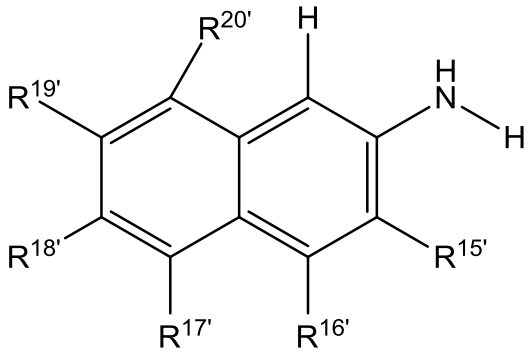


(**Vb**)

b) reacting a compound of the formula (**VIa**) or (**VIIa**):

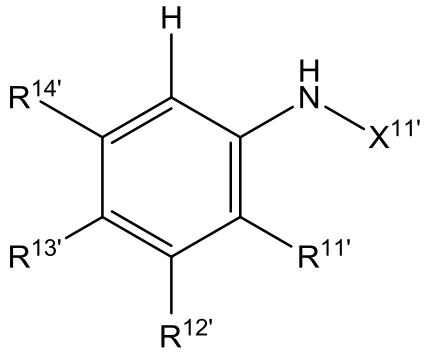


(**VIa**)

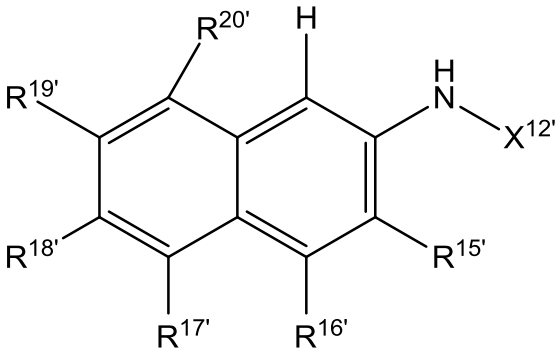


(**VIIa**)

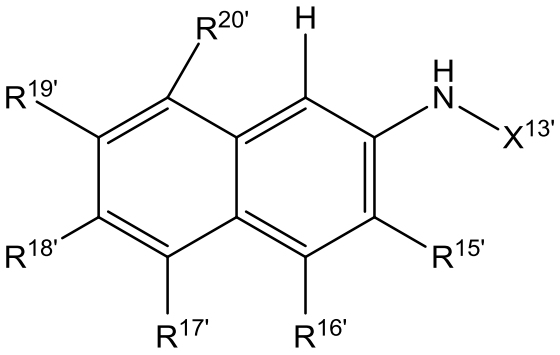
with reaction of (**VIa**) to give (**VIb**), or
of (**VIIa**) to give (**VIIb1**) or (**VIIb2**):



(**VIb**)



(**VIIb1**)

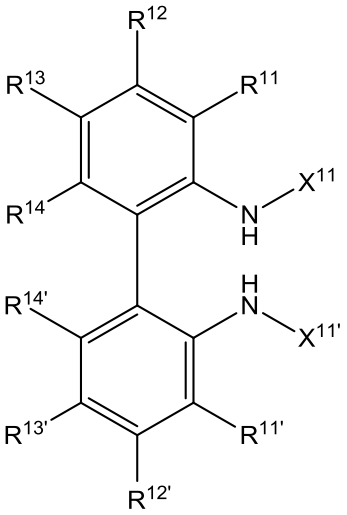


(**VIIb2**)

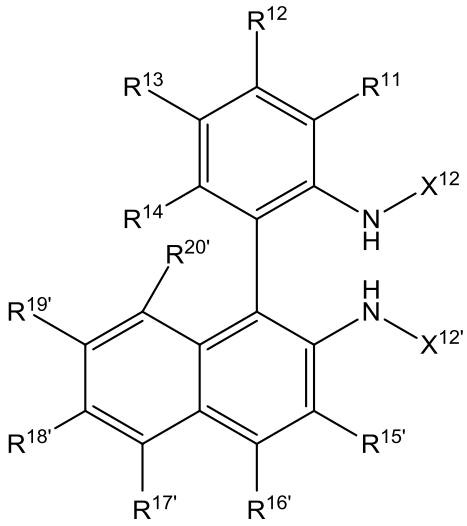
c) electrochemical coupling of:

- (**IVb1**) with (**VIb**) to give (**I***), or
- (**IVb2**) with (**VIIb1**) to give (**II***), or
- (**Vb**) with (**VIIb2**) to give (**III***),

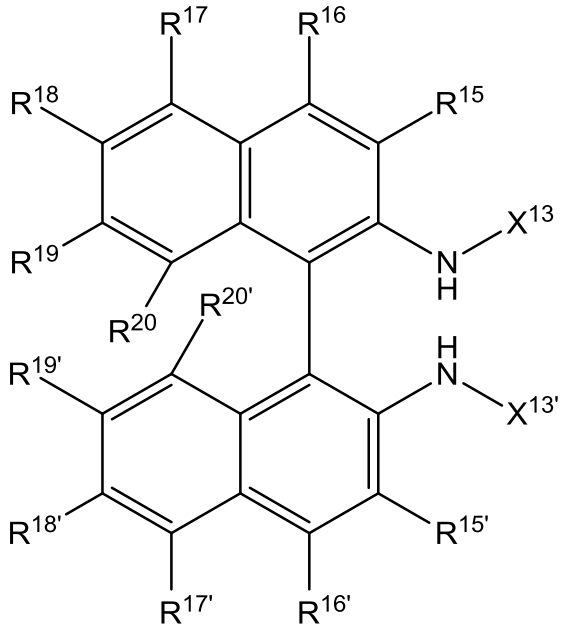
in each case with use of the compound having the higher oxidation potential in excess:



(**I***)



(**II***)



(**III***)

where

R^{11}, R^{12}, R^{13}, R^{14}, $R^{11'}$, $R^{12'}$, $R^{13'}$, $R^{14'}$ are selected from:

-H, -(C_1-C_{12})-alkyl, -O-(C_1-C_{12})-alkyl, -O-(C_6-C_{20})-aryl, -(C_6-C_{20})-aryl, -S-alkyl, -S-aryl, halogen, -COO-(C_1-C_{12})-alkyl, -CONH-(C_1-C_{12})-alkyl, -CO-(C_1-C_{12})-alkyl, -CO-(C_6-C_{20})-aryl, -COOH, -OH, -SO_3H, -CN, -N[(C_1-C_{12})-alkyl]$_2$;

R^{15}, R^{16}, R^{17}, R^{18}, R^{19}, R^{20}, $R^{15'}$, $R^{16'}$, $R^{17'}$, $R^{18'}$, $R^{19'}$, $R^{20'}$ are selected from:

-H, -(C_1-C_{12})-alkyl, -O-(C_1-C_{12})-alkyl, -O-(C_6-C_{20})-aryl, -(C_6-C_{20})-aryl, -S-alkyl, -S-aryl, halogen, -COO-(C_1-C_{12})-alkyl, -CONH-(C_1-C_{12})-alkyl, -CO-(C_1-C_{12})-alkyl, -CO-(C_6-C_{20})-aryl, -COOH, -OH, -SO_3H, -N[(C_1-C_{12})-alkyl]$_2$;

where the alkyl and aryl groups mentioned may be substituted;

X^{11} and $X^{11'}$ are selected from:

tert-butyloxycarbonyl, methyloxycarbonyl, benzyloxycarbonyl, phenyloxycarbonyl, acetyl, trifluoroacetyl, benzoyl, sulphonyl, sulphenyl,

and X^{11} is not the same radical as $X^{11'}$;

X^{12} and $X^{12'}$ are selected from:

tert-butyloxycarbonyl, methyloxycarbonyl, benzyloxycarbonyl, phenyloxycarbonyl, acetyl, trifluoroacetyl, benzoyl, sulphonyl, sulphenyl,

and X^{12} is not the same radical as $X^{12'}$;

X^{13} and $X^{13'}$ are selected from:

tert-butyloxycarbonyl, methyloxycarbonyl, benzyloxycarbonyl, phenyloxycarbonyl, acetyl, trifluoroacetyl, benzoyl, sulphonyl, sulphenyl,

and X^{13} is not the same radical as $X^{13'}$.