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(12) **United States Patent**  
**Ivanov et al.**

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(54) **METHOD FOR THE SELECTIVE  
PRODUCTION OF  
N-METHYL-PARA-ANISIDINE**

23/8892 (2013.01); B01J 25/02 (2013.01);  
C07C 213/00 (2013.01); C07C 213/02  
(2013.01)

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(58) **Field of Classification Search**

None

See application file for complete search history.

(56) **References Cited**

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(57) **ABSTRACT**

The invention "Method for selective synthesis of N-methyl-  
para-anisidine" relates to chemical technology processes,  
namely to catalytic alkylation of aromatic amines and nitro  
compounds.

The invention relates to the method for synthesis of  
N-methyl-para-anisidine (N-methyl-para-methoxyaniline;  
N-methyl-para-amino anisole) from para-anisidine (para-  
amino anisole; para-methoxyaniline) or para-nitro anisole  
(1-methoxy-4-nitrobenzene) and methanol in the presence  
of hydrogen or without hydrogen on heterogeneous catalyst.  
Proposed method permits to use existing process plants used  
for obtaining aniline and 14-methylaniline.

The invention purpose is to provide the possibility to pro-  
duce N-methyl-para-anisidine with purity at least 98% and  
high output that allows arrangement of highly profitable  
industry-scale manufacturing process.

**12 Claims, No Drawings**

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(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 137 days.

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