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EUROPEAN PATENT APPLICATION

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28.11.90 Bulletin 90/48(71) Applicant: **EASTMAN KODAK COMPANY**
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Technologie Zone Industrielle
F-71102 Chalon-sur-Saône Cédex(FR)(54) **Process for the electrochemical iodination of aromatic compounds.**

(57) The present invention discloses a process for the anodic electrochemical iodination of aromatic compounds to selectively and efficiently form a para-substituted iodobenzene. This process makes use of a graphitic carbon anode. Also disclosed is a process for cathodically deiodinating a diiodobenzene compound to form iodobenzene in the presence of a palladium on carbon catalyst.

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EUROPEAN SEARCH REPORT

Application Number

EP 89 42 0454

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
P,A	TETRAHEDRON LETTERS, vol. 30, no. 13, April 1989, pages 1649-1650, Pergamon Press Plc, GB; T. SHONO et al.: "Aromatic iodination by positive iodine active species generated by anodic oxidation in trimethyl orthoformate" * The whole article *	1	C 25 B 3/06
A	US-A-4 495 036 (THE DOW CHEMICAL CO.) * Column 1, lines 45-68; column 2, lines 1-22; column 5, lines 12-28 *	1	
A	TETRAHEDRON LETTERS, vol. 26, no. 13, 1985, pages 1655-1658, Pergamon Press, Ltd, GB; S. TORII et al.: "Pd(O)-catalyzed electro-reductive coupling of aryl halides" * The whole article *		
X	SU-A- 535 271 (Y.V. KOSTROMITINOFF) * Column 2, example *	22	TECHNICAL FIELDS SEARCHED (Int. Cl.5)
A	EP-A-0 226 275 (TRACER TECHNOLOGIES) * Page 11, table 2; pages 14,15, claims *	28	C 25 B 3/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 18-09-1990	Examiner GROSEILLER PH.A.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

X LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1-27: Electrolytic production of substituted (or not) iodobenzene in the anode compartment of an divided electolysis cell (iodination).
2. Claims 28-32: Processes for which the deiodination of a diiodobenzene takes place in the cathode compartment of a divided cell.

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims: