



KOREAN PATENT ABSTRACTS

(11) Publication number: **20030061434 A**
 (43) Date of publication of application: **18.07.2003**

(21) Application number:	1020037007816	(71) Applicant:	JAPAN SCIENCE AND TECHNOLOGY AGENCY
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(30) Priority:	2000 2000381537 JP 15.12.2000		
(51) Int. Cl.:	C07C 317/10 (2006.01);		

(54) **ARYLBIS (PERFLUOROALKYLSULFONYL) METHANE, METAL SALT OF THE SAME, AND PROCESSES FOR PRODUCING THESE**

(57) Abstract:

A process for highly efficiently producing various arylbis(perfluoroalkylsulfonyl)methanes which have a bulky aryl group or electron-attracting aryl group and which have conventionally been regarded as difficult to synthesize; a novel arylbis(perfluoroalkylsulfonyl)methane widely applicable as a catalyst for asymmetric synthesis, various functional materials, etc.; metal salts of these; and an excellent catalyst. An arylhalomethane

is reacted with sodium trifluoromethanesulfinate. The arylmethyltrifluorocarbon yielded is reacted with t-BuLi, etc. The arylmethyltrifluorocarbon lithium salt obtained is reacted with trifluoromethanesulfonic anhydride. Thus, an arylbis(trifluoromethylsulfonyl)methane, e.g., pentafluorophenylbis(trifuryl)methane or {4-(pentafluorophenyl)-2,3,5,6-tetrafluorophenyl}bis(trifuryl)methane, is obtained in high yield.

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