

Title (en)  
Process for the production of phosphazene polymers.

Title (de)  
Verfahren zur Herstellung von Polyphosphazenen.

Title (fr)  
Procédé de préparation de polyphosphazènes.

Publication  
**EP 0000790 A1 19790221 (EN)**

Application  
**EP 78100652 A 19780812**

Priority  
US 82400477 A 19770812

Abstract (en)  
[origin: US4129529A] {PG,1 The production of phosphazene polymers represented by the general formula {r1 {tc,1 {rb {ab,44 {m,1 {sb,21 {us,5 {ob,4 {mr,1 P{M,1 {AB,2 OR{MR,1 {AB,6 OR{40 {MR,1 {AD,44 N{AB,44 {SB,21 {US,5 {CB,4 {S,6 {BL,88 {HD n{re {PS {PS WHEREIN N IS AN INTEGER FROM 7 TO UPWARDS OF 50,000 WHEREIN ONE OR MORE KINDS OF OR or OR{40 {0 groups is attached to the phosphorus atoms in a substantially linear chain of alternating P and N atoms, the groups when more than one group is present being randomly distributed along the PN backbone, is enhanced by employing a single solvent for both each of the reactants (polydihalophosphazene and either aryloxide and/or alkoxide) and for the product (phosphazene polymer). By this expedient, the formation of the desired product is achieved in a homogeneous system rather than in a heterogeneous system as in the prior art where different solvents were employed for each of the reactants and for the reaction products.

IPC 1-7  
**C08G 79/02**

IPC 8 full level  
**C08G 79/02** (2006.01)

CPC (source: EP US)  
**C08G 79/025** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)  
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**US 4129529 A 19781212**; CA 1098534 A 19810331; DE 2862358 D1 19840209; EP 0000790 A1 19790221; EP 0000790 B1 19840104

DOCDB simple family (application)  
**US 82400477 A 19770812**; CA 309273 A 19780814; DE 2862358 T 19780812; EP 78100652 A 19780812