

## New $\beta$ -diketonate-chloride complexes of rhenium (III) with triphenylphosphate

### Description of the solution:

The object of the invention is new  $\beta$ -diketonate-chloride complexes of rhenium(III) with triphenylphosphate with the general formula  $[\text{ReCl}_2(\beta\text{-diketonate})(\text{PPh}_3)_2]$ , where  $\beta$ -diketonate is 2,2,6,6-tetramethyl-3,5-heptanedioate or 1,1,1-trifluoro-5,5-dimethyl-2,4-hexanedioate, used especially as a source of metal carriers in the gas phase.

### Benefits of the solution:

- Possibility of obtaining parts that are lighter and cheaper than solid element with the desired properties (by depositing thin rhenium covers, on carbon material or other substrates).

### Area of application:

Electronics, electrical engineering, process engineering.

### Technology readiness level:

6

### Intellectual property:

Invention: P.442624

### Owner:

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