Figure 8

800

Generating mirror data from said seismic data

802

Transforming said seismic data and said mirror data into Tau-P domain seismic data

804

Dividing said Tau-P domain seismic data into a plurality of data windows

806

Generating a ghost delay time for each of said plurality of data windows

808

Generating deghosted seismic data based on said ghost delay time

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Figure 8

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(57) Abstract: Methods and systems for optimized receiver-based ghost filter generation are described. The optimized ghost filter self-determines its parameters based on an iterative calculation of recorded data transformed from a time-space domain to a Tau-P domain. An initial ghost filter prediction is made based on generating mirror data from the recorded data and using a least squares technique during a premigration stage.

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(71) Applicant: CGG SERVICES SA [FR/FR]; 27 avenue Carnot, F-91300 Massy (FR).

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— of inventorship (Rule 4.17(iv))
### A. CLASSIFICATION OF SUBJECT MATTER

INV. G01V1/36

**ADD.**

According to International Patent Classification (IPC) or to both national classification and IPC

### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

G01V

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