



## Process for corrosion protection of steel in water

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Patent MD № 1507

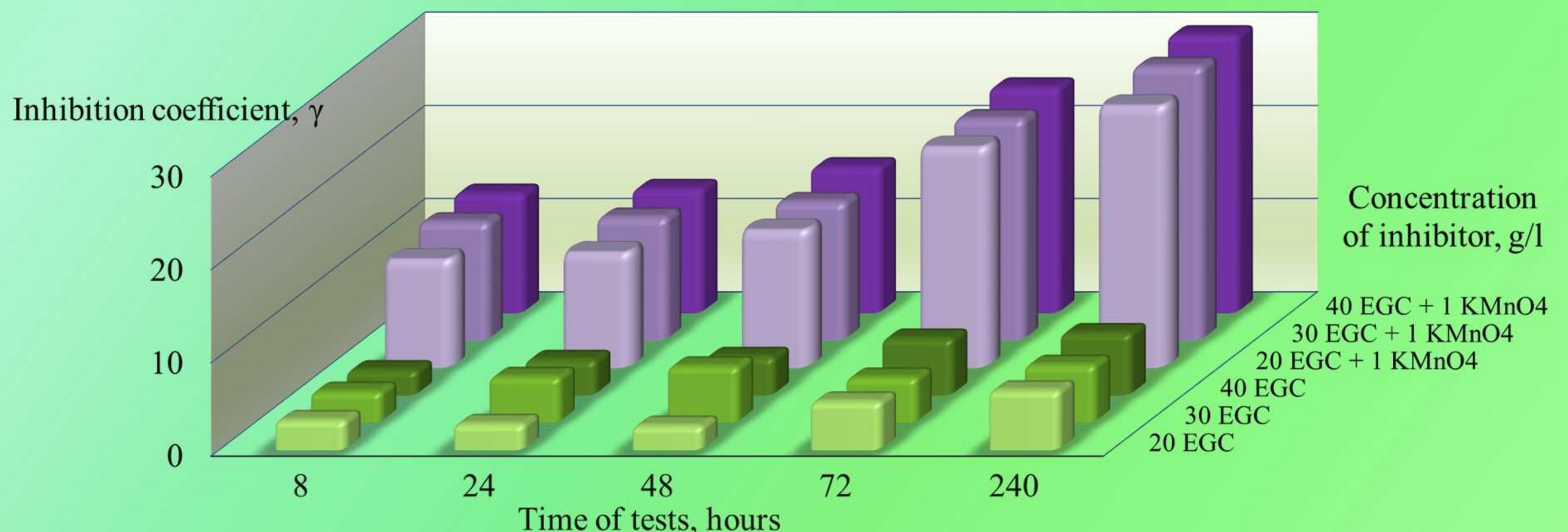
The invention relates to the field of metal protection from corrosion in water and can be used to inhibit corrosion in closed steel pipeline systems. The process for corrosion protection of steel in water comprises the introduction into the corrosive medium of 0.5-1.5 g/L of potassium permanganate  $KMnO_4$  and 10-40 ml/L of aqueous extract of greater celandine *Chelidonium majus*, obtained by water extraction of dry leaves and stems in a mass ratio of 1:(20-30) at a temperature of 75-90 °C for 2-3 hours, with subsequent filtration. The technical result of the invention consists in using an environmentally friendly, effective and inexpensive inhibitor, which provides an increase in corrosion resistance of up to 29.6.



### Advantages:

Utilization of this inhibitor has the following advantages:

- reduction of corrosion losses up to 29,6 times, what allows to prolong considerably terms of systems of steel pipelines maintenance in which carrier is water.
- ecologically safe, inexpensive,
- allows to refuse burning of foliage which does harm to the nature.



Influence of concentration of inhibitor on corrosion suppression process.