Journal of Physics: Conference Series 2017 vol.789 N1

Investigation of ring plasmatron for thermal purifacation of the dismantled pipes of an oil assortment from asphalt-resin-paraffin sediments

Gabdrakhmanov A., Galiakbarov A., Samigullin A. Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© Published under licence by IOP Publishing Ltd. This paper proposes a method of the thermal purification and removal paraffin, without using of mechanical purification of the oil wells and the oil pipeline.

http://dx.doi.org/10.1088/1742-6596/789/1/012008

References

- [1] Israfilov I.H., Galiakbarov A.T., Israfilov Z.H. and Israfilov D.I. Plasmatron Patent no 2363119. Application number 2006123860 dated July 3 2006
- [2] Gabdrakhmanov Az.T., Israfilov I.H., Galiakbarov A.T. and Samigullin A.D. 2011 Collection of Materials of interregional scientific-practical conference «III Kamskie read" part 3 - Nab (Chelny: INEKA) Calculation of the parameters of the annular plasma torch using dimensionless criteria of similarity 42-44
- [3] Zhukov M.F. 2004 Problems and prospects (Novosibirsk) The generation of a low-temperature the plasma and the plasma technologies 246-253
- [4] Gabdrakhmanov Az.T. 2011 Online electronic scientific and technical journal "Socio-economic and technical systems." no 2 (59) - Nab (Chelny: INEKA) Features of the current-voltage characteristics of pulsed plasma generator
- [5] Israfilov I.H., Saubanov R.R. and Rakhimov R.R. 2011 Prospective application of highly concentrated energy for the surface heat treatment products Socio-economic and technical systems: research, design, optimization 25-30
- [6] Israfilov I.H., Galiakbarov A.T., Gabdrakhmanov Az.T. and Nugumanova A.I. 2008 The Improving of the efficiency the plasma processing plant for heat treatment of metals Interuniversity scientific book "Designing and research of technical systems", Naberezhnye Chelny 101-105
- [7] Zvezdin V.V., Galiakbarov A.T., Nugumanova A.I., Gabdrakhmanov Az.T. and Saubanov R.R. 2010 The investigation of the influence the parameters the pulsed plasma generator on quality process Bulletin KSTU. AN Tupolev 50-52
- [8] Denisov D.G., Kashapov N.F. and Kashapov R.N. 2015 The appearance of shock waves in the plasma electrolytic processing lop conference series: materials science and engineering 012005
- [9] Kashapov N.F. and Luchkin A.G. 2014 The use of low-temperature plasma deposition of hardening coatings on plastics Proceedings of the higher educational institutions. Physics. 57 160-163
- [10] Kashapov N.F. and Kashapov R.N. 2014 A study of plasma-electrolytic process for different ratios of the anode space to the cathode Proceedings of the higher educational institutions. Physics. 57 168-170
- [11] Kashapov L N, Kashapov N F and Kashapov R N 2013 J. Phys.: Conf. Ser. 479 012011
- [12] Kashapov L N, Kashapov N F and Kashapov R N 2014 J. Phys.: Conf. Ser. 567 012025
- [13] Zaripov R G, Kashapov N F, Tkachenko L A and Shaydullin L R 2016 J. Phys.: Conf. Ser. 669 012053
- [14] Denisov D G, Kashapov N F and Kashapov R N 2015 IOP Conference Series: Materials Science and Engineering 86 012005