

In the Hawke's Bay Land District; as the same is more particularly delineated on the plan marked P.W.D. 37684, deposited in the office of the Minister of Public Works at Wellington, in the Wellington Provincial District, and thereon edged pink.

As witness my hand, at Wellington, this 24th day of June, 1915.

W. FRASER,
Minister of Public Works.

Competition for dealing with Spirit.

Department of Justice,
Wellington, 28th June, 1915.

THE following offer of the Russian Ministry of Finance is published for general information.

A. L. HERDMAN.

RUSSIAN MINISTRY OF FINANCE.

Conditions of the Competition for discovering Substances serving to denaturalize Spirit.

IN order to increase largely the applications of the spirit for technical purposes an international competition is instituted with three prizes respectively of 30,000, 15,000, and 5,000 roubles for finding out new denaturalizing substances or for the improving of the existing methods of denaturalizing, which substances or improvements should both secure a general use of the spirit and remove any possibility of using it as beverage.

The new denaturalizing agents ought to conform to the following conditions:—

(1.) The denaturalizing agents must convert the spirit into a liquid quite unfit for direct use as beverage and give to the spirit a repugnant taste or cause a physiological action on the organism (nausea, vomiting, diarrhoea).

(2.) The denaturalizing agents ought to be of such a nature that they do not spread a suffocating odour which renders the use of the spirit for domestic and general purposes inconvenient or injurious.

(3.) The denaturalizing agents ought to be of such a nature that they do not leave a residue during combustion and do not contain elements capable of damaging the apparatus in which the spirit is burning.

(4.) The separation of the denaturalizing agents from the spirit by means of simple methods, as eliminating by means of water, salting, filtering through charcoal, single distilling, &c., must be impracticable.

(5.) The primary substances, from which the denaturalizing agents are prepared, must be obtainable in Russia in suitable quantities.

Competitors have to present their declarations not later than 1st January, 1916.

The declarations in Russian or French languages are to be forwarded to the Department of Unassessed Taxes and Spirit Monopoly (Glavnoe Oupravlenie Neokladnich Sborow i Casennoi Prodajy Pitei, Petrograd), in envelopes marked with a special motto; in a separate cover bearing the same motto are to be indicated the name and address of the competitor.

In the declarations are to be indicated the composition of the denaturalizing agent proposed, the quantity thereof required for one "vedro" (27 English gallons) of spirit and the cost of such an agent.

The declarations entered for prizes must be accompanied by samples of the denaturalizing agents in quantities of not less than one kilogram.

The declarations presented will be examined by the Committee of the Competition formed of persons appointed therefor by the Minister of Finance; in which Committee will participate the representatives of the interested Ministries and Departments and the representatives of Science and Industry.

In case of inventions or improvements of first-right merit being presented to the Competition, the Committee is empowered to adjudge to one person several or all the prizes designated for the Competition.

The examination of the declarations presented and the adjudging of the prizes will take place not later than on the 1st July, 1916.

The resolutions of the Committee will be presented for approval to the Minister of Finance.

The Government has the right of utilizing the methods to which prizes have been awarded without otherwise indemnifying the inventors.

Conditions of a Competition for finding out New Ways of applying Spirit.

In order to increase largely the use of spirit or its derivatives as fuel for heating, lighting, and producing

motive power for industrial and household purposes, and in order to utilize the spirit or its derivatives in the different industrial branches of chemical technology, an international competition is instituted with the following prizes:—

(1.) Three prizes respectively of 60,000, 30,000, and 10,000 roubles for such inventions the object of which would be a new method of adapting spirit to a preparation of a product which, in its nature, should be quite different from the spirit used in its preparation. Such products are, for instance, vinegar, ether, chloroform, &c.

(2.) Three prizes respectively of 50,000, 20,000, and 5,000 roubles for inventions having for their object a new method to apply spirit for the preparation of a product in which the spirit or its derivatives (sulphuric ether, &c.) form one of the constituent parts of the product or serve as dissolving agent, with a proviso that there would be no profit in extracting the spirit from such a new product. Such products are, for instance, pharmaceutical and perfumery preparations.

(3.) Three prizes respectively of 30,000, 15,000, and 5,000 roubles for inventions having for their object a new method for the application of spirit in an industry in which the spirit or its derivatives (sulphuric ether, &c.) should serve either as a transitory intermediate dissolving agent or an extracting or precipitating substance; as, for instance, in the preparation of smokeless gunpowder or artificial silk.

(4.) Four prizes respectively of 75,000, 50,000, 30,000, and 20,000 roubles for an invention or improvement relating to apparatus for utilizing spirit in feeding internal-combustion engines.

(5.) Four prizes respectively of 75,000, 50,000, 30,000, and 20,000 roubles for inventions or improvements relating to apparatus for utilizing spirit or its derivatives as fuel.

(6.) Four prizes respectively of 50,000, 30,000, 15,000, and 5,000 roubles for an invention or improvement relating to apparatus to apply spirit to lighting purposes.

Competitors must present their declarations not later than 1st January, 1916.

The declarations in Russian or French languages are to be forwarded to the Department of Unassessed Taxes and Spirit Monopoly (Glavnoe Oupravlenie Neokladnich Sborow i Casennoi Prodajy Pitei, Petrograd), in envelopes marked with a special motto; in a separate cover bearing the same motto are to be indicated the name and address of the competitor.

The said declarations must contain detailed descriptions of the conditions under which the spirit is to be used, wherein must be added a calculation as to the economical value in the use for the spirit, on a basis of 2 copecks per degree of the latter (123 cb. cm. of pure alcohol at a temperature of 15½° C.).

The declarations entered for prizes indicated in §§ 1-3 must be accompanied by a sample of every product in a quantity of not less than one kilogram in each case.

With the declarations entered for prizes indicated in § 4 are to be delivered complete engines and detailed drawings of their parts representing the nature of the invention and indicating the dimensions of the engines.

With the declarations entered for prizes in §§ 5 and 6 are to be furnished specimens of the apparatus for utilizing spirit (space above grate, sprayer, blow-torch, lanterns, lamps, &c.) and detailed drawings indicating its dimensions.

Concerning the categories of prizes mentioned in §§ 4, 5, and 6 the prizes are awarded not only for inventions and improvements relating to the construction itself of the apparatus utilizing spirit, but (conjointly or separately) also for the mixtures of spirit with other substances and the methods of using such mixtures, proposed by the inventor in order to raise the calorific properties of the spirit.

Samples of substances to be added to the spirit, if they are not to be found on usual sale in Russia, must be presented in a quantity sufficient for detailed testing, but not less than 5 kilograms.

In the estimating of the improvements in internal-combustion engines the preference in the awarding of the prizes will be given to such improved separate parts which can be readily adapted to internal-combustion engines of existing types and will give the possibility of advantageously utilizing the spirit or the mixtures thereof in place of other kinds of fuel.

The declarations presented will be examined by a Committee of the Competition formed of persons appointed therefor by the Minister of Finance of Russia; in which Committee will participate the representatives of the interested Ministries and Departments and representatives of Science and Industry.

The prizes can be awarded only for inventions or improvements which presuppose a large consumption of spirit.