Applications 8 for Patents.

The following list of applications for Patents filed in New Zealand, 15th November to 12th December, 1905, has been specially prepared for PROGRESS.

20324—Urquhart, D. and Sloper, C, Smithfield, N. Z.: Depilating hides.
20325—Hart, G. H., Koromiko lock
20326—Hawkins, T. H., London Acetylene lamp and generator. 327—Martin, E. J. and Sutton, A. C, Auckland:

20327—Martin, E. J. and Sutton, A. C., Auch Half-tone process block. 20328—Wilson, J., Christchurch 20329—Dugdale, T., Waimate Rainwater

Ramwater head

20329—Dugdale, ..., and strainer.
20330—Cooper, S. T., Eltham Timber-wagon.
20331—Hutton, E. W. H., Dunedin Flax-dressing.
20332—Totman, G., Auckland Brooch-fastening.
20333—McIntyre, W., Westport Coal-boring

20332—Itman, G., Anthant Dock astrong.
20333—McIntyre, W., Westport Coal-boring machine (J. Smith).
20334—Phillips, E., Melbourne Rendering apparatus. (E. H. Fallows—J. H. Cayford)
20335—Park, J. R., Wellington Shackle (W. Beamish).
20326—Smith. H. T. and Brown, A. E. Christ-

Beamish).

20336—Smith, H. T. and Brown, A. E. Christ-church Station indicator.

20337—Porch, W., Epsom, Auckland Suction collar for pile-driving.

20338—Thomas, R. F., Melbourne, and Bradley, S. A., Kilmore Fruit case.

20339—Wilson, T. H., Brisbane Journal bearings

20340—Gresham, E. G., Dunedin Dental plates

20341—Gresham, E. G., Dunedin Dental instru-20341—Gresham, E. G, Dunedin

20342—Trounson, J., Kaihu cutter Scrub and fern Cooking

20343—Wood, H. J., Christchurch 20344—Middleton, G., London wheel. Road-vehicle

wheel.
20345—Rutland. C and Hardwick, T J. Perth,
W. A. Cycle inflation connection.
20346—Winch, W. J., Kalgoorlie Beer pump
20347—McGregor, J. and E., Turakina, and Ross,
C. G., Tarhape Sheep shears.
20348—Hugo, A. J. C., Kalgoorlie Locomotive
valve-setting machine.
20349—The Arcanum Limited, London Mineralwater manufacture, and delivery on draught

water manufacture, and delivery on draught 20350—Park, J. R., Wellington Waterprooffabric manufacture. (L. A. Bond). 20351—Gibbons, R. G., Sydney Dynamo electric

generator

generator
20352—Garner, W. R., Melbourne Cycle gear
20353—Beldam, A. G. W., and C. A., London:
Packing for rods and plungers (G. H. Robinson).
20354—Heeb, M., Port Legar Turbine.
20355—Hughes, W. E., Wellington Casting curved stereotypes (The Printing Machinery Co., Ltd., —H. A. W. Wood).
20356—Kaiser, A., Sydney Glass polishing machine (N. Weiderer & Co.).
20357—Allen, A. H., Worcester, England Painter's lamp.

lamp.
20358—Mellor, G. W., London Compound deal forming machine (G. S. Mayhew).
20359—Hatmaker, J. R., Paris Dry compound of coffee and milk.
20360—Hatmaker, J. R., Paris Blood-drying

process 20361-Hatmaker, J. R., Paris Fruit-drying

process.

20362—Gray, J. H., San Francisco

20363—Collins, R. J., Auckland

20364—Williams, A., Auckland

20365—McPhedran, D. T., Timaru

for piano.

20366—Stone W. Dwooder

tor piano.
20366—Stone, W., Dunedin Sash raiser and lock.
20367—Billens, A., Christchurch Spraying plants.
20368—Loone, A. W., Scottsdale, Tasmania Cycle toe-clip (W. Kilworth).
20369—Ravn, N. J., and Duncan, P., Christchurch:

Boot-sock.

Boot-sock.
20370—Samuel, T., Westport Elevating and concentrating black sand.
20371—Robertson, D., Wellington Postmarking

machine.

machine.
20372—Louden, J. A. E., Auckland Ice-chest.
20373—Burgoyne, L. H., Auckland Game.
20374—McConnell, J. N., Dunedin Cigarette-making by hand and for advertising
20375—Lyell, A., Palmerston North Tea-fuser.
20376—Holmes, G. B., and Allen, A. D., Wellington Trolley head.
20377—Slemitz, C., Auckland Spray pump.
20378—French, A. G., Motupipi. Cement manufacture.

ture.

20379—Nicholls, J. H., Wellington: Carpenter's

20380—Haigh, T. G., Linwood Whisking machine. 20381—Brain, W. B., Auckland: Tonic and antidote. 20382—Smith, P. A. N., and Brain, W. B., Auckland Electrical and oil motor-car and marine engine.

20383—Nicol, W., Wanganui · Removing coal

from railway-truck.
20384—Craven, A. T., Nelson. Music roller.
20385—Leslie, G., Wanganur Enriching and preserving natural colours of timbers.
20386—Sable, E., Korong Vale, Vic. Rabbit trap.
20387—Angus, A. R., Neutral Bay, N S.W. Railway brake.

-Angus, A. R., Neutral Bay., N.S.W. Railwav brake

20389—Angus, A. R., Neutral Bay, N.S.W. Railway brake.
20390—Staines, F., Melbourne. Pea-shelling

machine.

20391—Hogan, M, Edendale Grain and seed

20391—Hogan, M, Edendale Gram and seed cleaning machine.
20392—Glossop, J., Dunedin: Boring apparatus
20393—Chapman, A. H., Kurow Meat preserving,
20394—Jones, J. H., and Kane, W., Cromwell
Gold-saving dredge.
20395—Swhan, A. M., Otautau Turnip thinner
20396—Potton, L. H. and Winston, E. C., Christchurch Attaching models to dental articulators,
20397—Caithness, D. and Graham, J. P., Waikaka
Dredge anchor.

1398—Johnson, C. J. and Carlaw, J. Auckland Fire bridg?

20399—Anderson, F. H, Christchurch: Bedroom chamber.

Full particulars and copies of the drawings and specifications in connection with the above applications, which have been completed and accepted, can be obtained from Baldwin & Rayward, Patent Attorneys, Wellington, Auckland, Christchurch, Dunedin, &c

Complete Protection for Inventions.

By E S. Baldwin, M.E., Queen's Prizeman, South Kensington.

An article appeared in the last issue of Progress on provisional protection, at the end of which period of nine months the application must be period of fine months the application finds to completed by filing a complete specification, and drawings when the invention cannot be clearly understood without them If, however, by inadvertance the complete specification is not filed within the nine months, it may be filed within a complete the for extension

further month by making application for extension of time and paying fees therefor.

The term "complete" is somewhat misleading and it frequently occurs that inventors are under and it frequently occurs that inventors are under the erroneous impression that, after filing a com-plete specification and paying the fees connected therewith, they will obtain their patent deed. Such is not the case, however, as application must be made and a sealing fee paid before the deed

Reasons for filing a provisional application were given in last issue, but a complete application may be filed in the first instance, that is, without being preceded by a provisional application. The complete specification must "particularly describe and ascertain the nature of the invention" whereas the provisional specification contains merely a statement of the nature of the invention. It must distinguish between what is claimed as new and what is old, and must terminate with a distinct statement of the novelty or novelties claimed. Upon receipt by the Patent Office the specification is examined to see whether it is in order and properties describes the invention, and if it has been prely describes the invention, and if that been preceded by a provisional specification, whether the invention is the same. If the complete specification describes more than, or matter different from, the provisional, it will be considered a different inventional and have been expected for disconformity, until provisional, it will be considered a different invention and will be rejected for disconformity until it is amended. The complete specification will not be refused if it narrows the scope, that is, leaves out a part, of the provisional. The New Zealand Patent officers are now following the procedure recently brought into vogue in Great Britain, and are making a search in the interest of the inventor with regard to novelty of each invention brought before them. If the registrar finds a specification in the New Zealand or British records describing an invention similar to the applicant's, he sends a notification to that effect, and the specification must be amended if it entrenches on the anticipating patents. The search made by the Patent pating patents. The search made by the Patent officers is extensive, but does not carry a guarantee that the specification is good in law. The complete specification must be accepted within twelve months from the date of filing the application, or within a further extended period of three months on obtaining consent of the registrar and paying a fee thereon. After the specification has been

accepted, the registrar advertises the acceptance in the Patent Office Supplement to the Gazette. Any person may lodge opposition, giving particulars of his objections to the application within two months from the date of gazetting the application. If there is no opposition the registrar notifies the applicant that fees are payable and the patent may be sealed.

Canada's "Harnessing of Niagara."

TUNNELS, power houses, and gathering dam being all finished, the turbines and generators set being all finished, the furbilies and generators set in place, and every connection accurately completed, what is to be done with the 125,000 of horse-power which can be produced? Here steps in another company—to wit, the Toronto and Niagara Power Company, composed of the same interests, but having a different mission, for its business will be to dispose of the power that has been created, to play the part of the middleman, in fact. In order to do this a step-up transformer house, 200ft in length, will be erected on top of the Niagara embankment, to which the power will be conducted underground, and thence transmitted to Toronto, Hamilton, and other cities, for the use of the consumer, over wire cables carried upon steel towers nearly 50ft in height, placed 400ft apart. Between Niagara and Toronto a right-of-way 80ft in width has been acquired, upon which the steel towers are placed, and over this right-of-way, in the not distant future, an electric road will run connecting the two places. in place, and every connection accurately completed, distant future, an electric road will run connecting the two places. In Toronto itself the street railway system, the electric lighting system, the radical railway system, and other large consumers of power have already been contracted with, while it is a matter of certainty that, once the power is ready in abundance, the manufacturers now using steam will hasten to avail themselves of the sympler safer cleaner and more economical method simpler, safer, cleaner, and more economical method

of driving their machinery.

Furthermore, and finally, with a faith in the future that shall surely not be disappointed, a town site, having a frontage of two miles upon the Welland River, three miles from Niagara, has been secured, and will be laid out in lots, to accommodate industries attracted thither by the advantages of the attracted. ages of the situation. The expectation is that many large American industries whose output finds a market in the British Empire will be induced to establish branches there by the fact that goods manufactured in Canada enjoy the benefit of a preferential duty in many parts of the Empire, and can consequently be disposed of at a higher profit.—

J. Macdonald Oxley, in the "World To-day."

The Federal Government has ordered new machinery, at a cost of £5600, for printing the new Commonwealth postage-stamps. They are to bear the King's effigy, and for economical reasons are to be of small size. The present designs will be retained till the close of the bookkeeping period. Prices were obtained for the printing from all the States, and as the South Australian figure was States, and as the South Australian figure was the lowest, it is the present intention of the Postthe lowest, it is the present intention of the Post-master-General to have the stamps printed at Adelaide; though his colleague. Sir William Lyne, demurred, alleging that if Adelaide printing was the cheapest, it was also the worst. The larger States, notably New South Wales, are protesting against the change, as it will throw many skilled stamp-printers out of work and render costly machinery useless machinery useless.

Weighing a letter on a platform scale, such as is commonly seen at warehouses, railway stations, etc., is quite possible, even though these scales are not usually graduated to weigh to a smaller unit than \$\frac{1}{2}\$ b. Platform scales are usually designed so that 1 lb. of weights hung on the tip of the beam will balance some definite amount, usually 100 lb., on the platform. This ratio is commonly indicated on so that IID. Of weights number of the beam will balance some definite amount, usually 100 fb., on the platform. This ratio is commonly indicated on the weights. Knowing this, it is only necessary to place the letter or package on the counterpoise, and then to place enough of any available material on the platform to balance the scale. Remove the letter, weigh the load on the platform in the usual manner, and divide this amount by the ratio, in this case 100. For example: suppose the weight of the material which just balances the letter to be $5\frac{3}{4}$ lb., then 5.75 divided by 100 = 0575 lb. Reducing this to ounces, .0575 x 16 = 92 oz., which is the weight of the letter. On the other hand, if it is wished to weigh out exactly 1 oz. of something, it is only necessary to remember that it will require 100 oz. $(6\frac{1}{4}$ lb.) on the platform. If the ratio of the weights is not known, it may be found by weighing one of them. If the weight which is marked 100 lb. weighs 1 lb., the ratio is, of course, 1 to 100; or if the 100-lb. weight weighs $\frac{1}{2}$ lb, the ratio is 1 to 200. lb, the ratio is I to 200.