

S CORRESPONDENTS 723

W. N. H., of Texas .- A fly wheel does not enable ma chinery to be driven with less power ; it merely regulates

ver, and is also called a balance wheel F. G. R., of Va .- We published elaborate articles in our last Volume, on kyanizing timber. The cheapest way to kyanize your boards, is to steep them in a solution of sulphate of copper, for three days. Use one pound to hundred gallons of water. You can steep them in a tank made of boards ; place stones upon the boards to sink them under the water : dry them after they are steeped. E. A. C., of Conn.-There is no time fixed by law when an applicant must withdraw his case in order to get twenty dollars refunded

W. R. P., of Va .- The in ormation you solicit on Smut Mills we cannot give. Address J. D. Bidwell, Uhrichs-ville, Ohio, J. R. Gates, Eickmansville, Ohio, George Heberling. Quency, Ill., or G. H. Starbuck & Co., Troy N.Y. Either of the above parties can give you the de sired information.

J. E., of Pa.-We have examined your diagram, and description of two combined wheels, with syphon conductors, but our former opinion is unaltered. Two wheel on one shaft, the water passin through one of them into and out of the other, have been tried, and are not new; but we are not aware of syphons having been employed the same combination of wheels you have designed. Send along your model, and we will examine it. J. R. E. S., of Phila.—We are not acquainted with any

work describing the latest improved processes of manu facturing whiskey.

J. F. R., Pa.-There has been no epidemic yellow feve whatever, in New-York or its vicinity, this season. If the insect theory is correct it has not been corroborated by the clouds of flies which were seen coming north. The disease at Staten Island was introduced by vessels from the West India islands, and every case that occurred has been distinctly traced to contagion. J. G., of N. J.—We cannot furnish you with one of the

Sewing Machines referred to. Address the Patentee Gold in anacid solution, can be precipitated with comon salt, and then reduced to a solid by severe pressure or smelting. By driving off the acid by heat, the gold can also be solidified by pressure. The only way to prevent the evaporation of aglass solution is to seal it up tight, or

keep it at a low temperature in an ice-house. C. Y. H., of Va.-We understand your ideas perfectly respecting employing the irregular power of wind by mill, to compress air in a strong vessel, and take the power from it to drive an engine regularly. This plar has been proposed a number of times, but the great diffi culty in carrying it out is to keep up a regular pressure in the air reservoir, which is absolutely necessary.

S. W. B., of Mass .- If the water in your cistern which is placed above the boiler exerts a pressure on its base qual to t e pressure of the steam in the pipe under it. t en the two should balance each other exactly, but if the pressure is unequal, the steam, if greatest, willrush up into the cistern, and become condensed; its pressure e lowered, and the water will descend to the boiler. C. A. B., of N° H.—If you keep polished steel perfectly

dry, it will not rust, but if you cannot do this you must coat it with a varnish. Use copal varnish for this purpose. W. C. T., of Ill.-Babetting metal, means to enclose a soft metal bearing in an iron shell, such as an alloy of copper, tin, and lead, or brass.

E. E. B., of Ga.-If you boil your cloth for awnings in weak solution of sulphate of copper, for one hour, then dry it, mildew will not readily form on it. One pound of sulphate of copper is sufficient for 100 square Write to Wells & Webb, Printers' furnishers, this city

about your type. W. F. V., of N. Y.-You can use bleached cottor linen cloth for window shades. They are prepared by brushing them over with the best quality of painters' varnish.

John Mahoney, of Detroit, Mich., wants the best and cheapest machine known for cutting shavings for mattresses. Who can furnish him ?

E. B., of Mass.—For further information respecting the sewing machine address the party named in the paper. J. M. C. Reed, of Girard, Ala., wishes to procure a machine for sawing wood or shingle blocks, the machine to be portable, carried to the wood, and not the wood carried or applied to the machine.

H. J. F., of Ohio.—Glazing is effected by a mixture of oxyd of lead and ground flint. These materials are first ground to an extremely fine powder, and mixed with wa-ter to form a thin liquid. The ware is dipped into this fluid, and withdrawn. The moisture is soon absorbed by the clay, leaving the glazing particles on the surface. These are afterwards melted by the heat of the kiln, and thus constitute a uniform and durable vitreous coating.

S. J., of N. Y .- The process of making starch is very simple. Potatoes, for example, from which most of the simple. For a cost, for example, from which most of the starch of commerce is manufactured, after being pared, are grated to a pulp. This pulp is put upon a seive and stirred about, while at the same time a small stream of water is made to flow upon it. A milky liquid flows through the seive, but the fibrous portion of the potatoe the vegetable tissue, remains behind. This liquid, after a short interval, deposits a white powder, which is starch. Starch can be obtained from a great variety of plants.

W. H., of Mass.-Your diagram and card do not pr that the moon has a rotation on its own axis, but that it revolves round and with the earth-the earth being the

D. R. of Mich.-We do not think a patent could be procured on the modification you propose in windo blind slats. It would not be considered sufficiently novel to justify an application for a patent.

J. M. T., of Ind.-The coffin level is not of sufficient in terest to engrave. The curved lever for the horse power would have a trifling advantage. \$1 for paper received. S. S., of Mass.—The old English law regulating the time hides of various kinds shall be tanned, has, we believe become obsolete. It is possible that such a law may still be on the statute books, but we think it is never regarded. The introducer of an invention in England may ob tain a valid patent, irrespective of the consent of the in. ventor

J. P. H., of Texas-You can procure hydraulic rams of W. & B. Douglass, Middletown, Conn.

Money received at the SCIENTIFIC AMERICAN Office, on account of Patent Office businessfor the week ending Saturday, Oct. 11, 1856 :--B. & C., of N. H., \$30 ; A. B., of N. Y., \$55 ; T. & C.

of Mass., \$25; L. & W., of Mo., \$275; G. O., of N. Y., \$25 H. P. T., of Mass., \$30; J. C. B., of Conn., \$10; W. C., of Ala.. \$25; J. F. N., of N. C., \$30; W. P. F., of La., \$55 S. Z. H., of Texas, \$10; J. D. S., of O., \$25; S. S. M., of S. C., \$25; J. A. T., of Pa., \$30; J. F. P., of N. Y., \$30; G. S., of Mass., \$30; J. W. C., of N. Y., \$30: O. R. M., of N. Y., \$25; G. H. S., of Wis., \$25, J. J. W., of N. J., \$30; M. L., of N. Y., \$25; O. V. D. R., of Ill., \$25; G. S. of Ill., \$30 : J. L., of O., \$25 ; H. G., of C. W., \$30 ; W. H. Mc N., of N. Y., \$30; C. & G. M. N., of N. Y., \$25; W J. D., of N. Y., \$25 ; G. D. L. of N. Y., \$25

Specifications and drawings belonging to parties with the following initials have been forwarded to the Patent

Office during the week ending Saturday, Oct. 11th :-G. O., of N. Y.; C. & G. M. W., of N. Y.; J. F. W of N. Y.; W. J. D., of N. Y.; T. & C., of Mass.; G. D. L., of N. Y.; E. L. E., of R. I.; G. H. S., of Wis.; W. C., of Ala.; O. R. M., of N. Y.; N. H. Mc N., of N. Y.: C., of Va. ; A. G , of Mass. ; R. O. J., of N. J. ; H. H., of Miss. ; R. E., of Pa.

Important Items.

INVENTORS SENDING MODELS to our address should always enclose the express receipt, showing that the transit expenses have been prepaid. By observing this rule we are able, in a great majority of cases, to pre-vent the collection of double charges. Express companies, either through carelessness or design, often neglect to mark their paid packages, and thus, without the receipt to confront them, they mulct their customers

at each end of the route. Look out for them. WORD OF WARNING.—To those who have procrass tinated in renewing their subscriptions, but still design to remit in a few days, we would say, be careful and not delay too long. The back numbers of the present volume are running low, and some of our friends are going to be disappointed, by and by, when they send in their subscriptions, and order the back numbers, by a short reply back, "Back numbers all gone."

MODELS -Inventors, in constructing their models, should bear in mind that they must not exceed a foot in meas urement in either direction. They will also remember that the law requires that all models shall be neatly and substantially made of durable material. If made of soft wood they should be painted or stained. We shall esteem it a great favor if inventors will always attach their names to such models as they send us. It will save us much trouble, and prevent the liability of their being mislaid.

ATENT LAWS AND GOIDE TO INVENTORS .- This pam phlet contains not only the laws but all information touching the rules and regulations of the Patent Office Price 12 1-2 cents per copy. A Circular, giving in structions to inventors in regard to the size and proper construction of their models with other useful informat tion to an applicant for a patent, is furnished gratis a this office upon application by mail.

RECEIPTS-When money is paid at the office forsubscription, a receipt for it will always be given; but when subscribers remit their money by mail, they may consider the arrival of the first paper a bona fide acknowledgment of the receipt of their funds.

PATENT CLAIMS-Persons desiring the claim of any in vention which has been patented within fourteen years can obtain a copy by addressing a letter to this office stating the name of the patentee, and date of patent

when known, and enclosing \$1 as fees for copying. BINDING-We would suggest to those who desire to have their volumes bound, that they had better send their numbers to this office, and have them executed in a uni-

form style with their previous volumes. Price of binding 75 cents.

Literary Notices.

LIFE OF GEORGE WASHINGTON-BY Washington Irv-ing.-Vol.3 of this superb work duodecimo edition. has just comefrom the press of G. P. Putnam & Co., N. Y. It is enbelished with a likeness of Gen. Putnam. "The Life and Character of George Washington." in the hands of such a literary artista. Irving, rise in their grandest proportions, and cannot fail to impress themselves upon the American mind with increased power and attractions. We wish every family in our land would procure this work. It needs to be known and read far and wide, and its influence will be peaceful and salutary. We advise our readers to get this, the best" Life of Washington" events of his own career, but becomes necessarily a His-tory of the American Revolution.

THE BIBLIOTHECA SACRA.—The number of this able theological review for Oct., contains articles on Dr. Lep-sins's Universal linguistic alphabet. "Authority and Obligation of the Sabath," "The Bible in Schools," "An Account of Bashan Iturea, and Kenath," by Rev J. L. Porter, Missionary at Damascuts, "A Review of Top-lady's Works," and a long criticism on the "Mosaic Nar-rative of Creation," by Prof. Barrows, of Andover. This is an able Fessay, partly in reply to Prof. Lewis, of Sche-nectady. The previous number of this Review was not received by us. Published by Warren F. Draper, Ando-ver, Mass.

MUSPRATT'S CHEMISTRY.—The 11th and 12th numbers of this beautiful and thor ough work, have just been issued by C. B. Russell & Bros. Tremont.st., Roston. The 11th contains a fine Steel Plate Portrait of Prof. Brande; the articles treated are "Bone Black" and Bleaching. When completed, this will be the most complete single work on Chemistry yet published. The price is 50 cents per No.

THE UNITED STATES MAGAZINE for October contain an illustrated article of interast on the Patent Office al Washington, besides other articles spicy and interesting J. M. Emerson & Co., Publishers, New York.

Terms of Advertising.

Twenty-five cents a line each insertion. We respect-fully request that our patrons will make their advertisements as short as possible. Engravings cannot be admitted into the advertising columns. IF All advertisements must be paid for before insert

DLUMBEOLA Universal Patent Agency.-Plumbe ola and Du Buque, Iowa. 66*

To wHOM IT MAY CONCERN-This certifies that I have one of Wells & Co's Circular Saw Mills in operation, with which we are now cutting from ten to fiteen thousand feet of road plank per day (12 hours) and we have no doubt but we could, under favorable circum-stances, cut 20,000 feet in 12 hours. Our engine is 8'inch. bore and 16 inch. stroke. Boiler 24 feet long, 42 inches diameter, two 16 inch. flues. Our logs are 8 feet long, Grand Blanc, Genesee Co., Mich. Sept. 13th, 1856. Orders for mills sent to H. Wells & Co., Florence, Hampshire Co., Mass., will receive prompt attention. 6 3eow

IMPORTANT TO INVENT-

IMPORTANT TO INVENT-ORS. THE UNDERSIGNED having had TEN years' practical experience in soliciting PATENTS in this and foreign countries, beg to give notice that they con-tinue to offer their services to all who may desire to se-cure Patents athome or abroad. Over diverse thousacand Letters Patent have been issued, whose papers were prepared at this Office, and on an average Afteen, or our-third of all the Patents issued each week, are on cases which are prepared at our Agency. An able corps of Engineers, Examiners, Draughtsmen, and Specification writers are in constant employment, which renders us able to prepare applications on the shortest notice, while the experience of a long practice, and facilities which few others posses, we are able to give the most correct counsels to inventors in regard to the patentability of inventions placed before us for ex-amination.

rive the most correct counsels to inventors in regard to the patentability of inventions placed before us for ex-mination. Trivate consultations respecting the patentability of in-ventions are heldfree of charge, with inventors, at our office, trom 9 A. M., until 4 P. M. Parties residing at a distance are informed that it is generally unnecessary for them to incur the expense of attending in person, as all the steps necessary to secure a patent can be arranged by letter. A rough sketch and description of the improve-ment should be first forwarded, which we will examine and give an opinion as to patentability, without charge. Models and fees can be sent with aftey from any part of the country by express. In this respect New York is more accessible than any other city in our country. Circulars of information will be sent free of postage to any one wishing to learn the preliminary steps towards making an application. In addition to the advantages which the long experiences and great success of our firm in obtaining patents present to inventors, they are informed that all inventions pat-ented through our establishment, are noticed, at the prop-or time, in the SCIENTIFIC AMERICAN. This paper is read by not less than 100,000 persons every week, and en-loys a very wide spread and substantial influence. Most of the patents obtained by Americans. This foreign countries are secured through us; while it is well known that a very large proportion of all the patents applied for inthe U. S., go through our agency. MUNN & CO. American and Foreign Patent Attornies, Principal office 122 Fulton street. New York.

FOR SALE-A Great Bargain-Valuable Foundry and Machine Shop in Mont Clare.opposite Phoenix-ville, in Montgomery Co., Pa. The building is 50 x 120 feet 2 stories high, and very desirable property. Will be sold with or without patterns, to suit purchasers. Also a double frame dwelling house, 30 x 32 feet, two and a half stories high. This property will be sold at a bargain. For informatien inquire of JOSEPH JOHNSON, in Phoenix-ville, or of JOEL FINK, Mont Clare, Pa. 1*

D. BARNETT, Malleable and Gray Iron Works, Hamilton cor. of McWhorter st., Newark, J. Orders promptly attended to. 6 10*

Machinery, and Patent Right Depot. No. 212 Broad-way, cor. of Fulton st., New York. Our experience in disposing of rights, and extensive acquaintance through-out the Union has induced us to establish branch and connecting offices in all the principal cities, therefore we have superior facilities for the purchase and sale of machinery, and for the sale of such valuable patent rights and patented articles as will bear actual demonstration. Good reference givon. Address 1* A. & J. T. SPEER.

EDATENT BUCKLE—The double-jointed buckle patented Sept. 2d. 1856, is claimed to be the best in-vention in the way of buckles for wearing appared, su-penders, &c., that has ever been produced. The entire patent, or territory in States may be bought cheap of the patente. Address, for further paticulars, WILLIAM SLADE, Gum Creek, Dooley Co., Ga. 6 2*

SLAP, our CHINISTS TOOLS-Slotting ma-chines, Planers, Compound Planers, Lathes, Drills, Gear Cutters, &c., &c., constantly on hand, and made to order at short notice by CARPENTER & PLASS, 479 6 5

BROFITABLE EMPLOYMENT FOR THE Winter months. Please to read this. Agents want-ed. Extra inducements for 1857 All persons in want of employment will at once receive our catalogue of Books for the New Year, prepaid, by forwarding us their ad-dress. Particular attention is requested to the liberal of-fers we make to all persons engaging in the sale of our large type Quarto Pictorial Family Bible, with about one thousand engravings. On receipt of the established price. S6, the Pictorial Family Bible, with a well-bound Subscription Book, will be carefully boxed and forwarded per express, at our risk and expense, to any central town or village in the U. S. excepting those of California, Ore-gon, and Texas. Our books are sold only by canvassers, and well known to be the most saleable. Address, (post paid.) ROBEKT SEARS, Publisher, 18 William st., N. Y.

W OOD WORTH'S PATENT PLANING, Tonguing, and Grooving Machines.—The subscri-ber, from his twenty-four years' experience both in, the use and manufacture of these unrivalled machines. is pre-pared to furnish them of a quality superior to any that can be procured elsewhere for the same money. Prices from \$85 to \$1550. Also several good second hand Planing, Tonguing, and Grooving Machines for sale. Rights for sale in all the unoccupied towns in New York and Nor-thern Pennsylvania. JOHN GIBSON, 5 12* Planing Mills, Albany, N. Y.

UNVENTORS AND PATEN' FEES. The undersigned has established an agency for the sale of patent rights in the city of Baltimore, at No. 34 Second street. PHILIP T. TYSON. 55*

A REQUEST-LIBERAL OFFER. - We propose send to every person in the United States, who send to every person in the United States, who is interested in the manufacture of lumber, or improved machinery, a fullillustrated description of two valuable inventions. First,

machinery, a fullillustrated description of two valuable inventions. First, THE COMBINATION PORTABLE STEAM SAW. MILL,.—This is a new upright mill, so simple in its con-struction that any one can put it up and run it—is easily moved from place to place—may be easily shipped to any part of the country—is capable of cutting from six to ten thousand feet in every twenty-four hours, while, at the same time it is furnished at so low arate as to bring it within the reach of almostevery far mer and planter. Second, RICE'S PATENT SPHING GUIDE.—The only effectual plan ever invented for guiding, steadying, and strengthening a circular raw, while in motion. We wish, therefore to obtain a list of all the machinist, jumbermen and saw-mill men in the United States, and to any person who will send us a list of cutton parties in his vicinity, and the address of each, we will send in return, a copy of the "United States Journal." the largest illus-trated newspaper in the Journal." to he party from whom we receive the first list, only. The New England States are not included in this offer, ag we have there already we receive the first list, only. The New England States are not included in this offer, as we have there already completed a list, as desired. J. M. EMERSON & CO., 1 Spruce street, New-York. 44

MPROVEMENT IN BORING MACHINES. -- This improvement consists of an arrangement by which the improvement consists of an arrangement lauger can be driven in any direction the oper rendering the machine far superior to any c use. RICE & DRYDEN, Worcester, Mass. v other now 4 4*

OLL PRESSES FOR SALE .- One set of Hori zontal Oil Presses, complete consisting of two cyl ✓ zontal Oil Presses, complete consisting of two cyl-inders, lined with copper, and boxes containing 8 bags each, with plates, hydraulic pumps and connections, and heating tables, these presses are built in the most im-proved and substantial manner, and can be delivered im-mediately; squeezers and bags can also be furnished if required. Apply to WM. ARTHUR & CO., Atlantic Steam Engine Works, Brooklyn, N. Y. 34*

HARRISON'S GRIST MILLS -20, 30, 36 and 48 inches diameter, at \$100, \$200, \$300, and \$400, with all the modern improvements. Also, Portable and Sta-tionary Steam Engines of all sizes, suitable for said Mills. Also Holters, Elevators, Belting, &c. &c. Apply to 3 e3wtf S. C. HILLS, 12 Platt st., N.

N. W. ROBINSON'S PATENT HEAD TURN-ING AND PLANING MACHINE, for Heads of ING AND PLANING MACHINE, for fleads of all kinds and descriptions; it will make from 200 to 350 heads per hour, of the most perfect description. There will be one on exhibition at the Crystal Palace, N.Y., at the Fair of the American Institute, in October, where those wishing for Machines or State rights can see it in operation and judge of its merits for themselves. All communications in relation to machines and rights should be addressed to ROBINSON, SCRIBNER & CO., Keeseville, Essex Co., N.Y. 16*

ACHINE BELTING, Steam Packing, Engine Hose.—The superiority of these articles manufac-tured of vulcanized rubber is established. Every beit will be warranted superior to leather, atome-third less price. The Steam Packing is made in every variety, and warranted to stand 300 degs. of heat. The hose never needs oiling, and is warranted to stand any required pres-sure; together with all varieties of rubber adapted to mechanical purposes. Directions, prices, &c., can be ob-tained by mail or otherwise, at our warehouse. New York Belting and Packing Co., JOHN H. CHEEV FR, Treasurer, No. 6 Dey street, N.Y. 48 20*

EADY FOR AGENTS-THIMBLES FOR THE MILLIONS THAT HUSK CORN.-The under-MILLIUNS THAT HUSK CORN.—The under-signed is prepared to full orders for GOULD'S PATENT HUSKING THIMBLES, fullustrated on page 302, vol.xi., Sci. Am.) Hardware Dealers and Country Merchants are requested to send on their orders at once. Satisfaction warranted, or no sale. Circulars sent on application. Address J. H. GOULD, (Sole Proprietor.) Alliance, Stark County, Ohio. 43*

Stark County, Ohio. 4 3³ CIRCULAR SAWS — We respectfully call the atten-tion of manufacturers of lumber to the grea improve-ments recently introduced in the manufacture of our circular Saws. Being sole proprietors of Southwell's patent for grinding saws, we are enabled to grind circular aws from six inches to six foct with the greatest accuracy and precision. The impossibility of grinding a saw with-out leaving it uneven in thickness has always been ac-knowledged by practical saw makers. This causes the saw to expand as soon as it becomes slightly heated in work-ing. When this takes place the saw loses its stiffness, and will not cut in a direct line. We will warrant our saws to be free from these deiects, they are made perfectly even in thickness, or gradually increase in thickness from the edge to the center, as may be desired. As there are no thick or thin places, the friction on the surface of the saw is uniform, consequently it will remain stiff and true, and will require less set and less power. Will saw smooth, save lumber, and will not be liable to become un-true. This is the oldest etablishment now in existence for the manufacture of circular saws in the United States, having been established in the year 1830. Orders re-ceived at our Warehouse, No. 43 Congress st. Boston. 413*

KNITTING MACHINES -- Circular and straight knitting machines of all sizes and gauges on hand and made to order. WALTER AIKEN, Franklin, N.H. 46 13*

DAGE'S PATENT PISRPETUAL LIME KILN, will burn 100 barrels of lime with three cords of bushel with 1 th bituminous coal in the same time; coal is not mixed with limestone. Rights for sale. 45 26 C. D. PAGE, Rochester, N. Y.

50 STEAM ENGINES—From 3 to 40-horse power also portable engines and boilers; they are first class engines, and will be sold cheap for cash. WM BURDON, 102 Frontst., Brooklyn. 41 tf

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VAIL'S CELEBRATED PORTABLE STEAM WAIL'S CELESSTATED FURTADETS OF LOAD Engines and Saw Mills, Bogardus' Horsepowers, Smut Machines, Saw and Grist Mill irons and Gearing, Saw Gummers, Ratchet Drills, & Order for light and heavy forging and castings executed with dispatch. LOGAN & LIDGER WOOD, 13 1y* 9 Gold st. N. Y.

PAGE'S PATENT CIRCULAR SAW MILLS with Steam Engine and Boiler, on hand and for sale for \$1500, at Schenck Machine Depot, 163 Greenwich st. New York. A. L. ACKERMAN. 4910

Barrel Machinery-CROZIER'S PATENT bis unrivalled in point of quality and quantity of work performed, and may be seen in constantoperation at the Barrel Manufactory of the undersigned. For rights and machines address WELCH & CROZIER, 43 18* Oswego, N.Y.

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B. Detroit, saint. Discrete control of the second second

"The Supreme Court of the U S., at the Term of 1853 and 1854, having decided that the patent granted to Nich. olas G. Norcross, of date Fab. 12, 1850, for a Rotary Pla-ning Machine for Planing Boards and Planks is not an infingment of the Windworks and Planks is not an Bights to use the N. G. Norcross attended machine can be purchased on application to N. G. NORCROSS, Office for sale of rights at 27 State street, Boston, and Lowell, Mass.

NEW HAVEN MFG. CO.—Machinists' Tools, Iron Planers, Engine and Hand Lathes, Drills, Bolt Cut-ters, Gear Cutters, Chucks, &c., on hand and finishing. These Tools are of superior quality, and are for sale low for cash or approved paper. For cuts giving full descrip-tion and prices, address, "New Haven Manufacturing Co., New Haven, Conn. 1 tf

HARRISON'S 30 INCH GRAIN MILLS_La. test Patent.— A supply constantly on hand. Price \$200. Address New Haven Manufacturing Co., New Haven, Conn._____ I tr

A simple and cheap condenser manufactured by Wm. Burdon, 102 Front st. Brooklyn, will take very par-ticles of lime or sal out of the water, rendering it as pure as Croton, before entering the boiler. Persons in want of such machines will please state what the bore and stroke of the engines are, and what kind of water is to be need. stroke used. 41 tf

