THE DESENDENT

Sul-ecurt

Toughened Glass.

The ancient admonition to occupants of glass houses is in danger of experiment failed. A strip of the bushel, \$3; bushel, \$5. Circulars and Samlosing its force. M. A. de la Bastie, patent glass 10 inches in length, 3 ple Packages of Seeds Free for two tames. a Frenchman, has already succeed- inches wide and 3-16 of au inch ed in making the demolition of that hitherto fragile substance a matter of no small difficulty. When it in the center. One hundred and saucers, plates and glass dishes of eighty pounds were thus suspendevery description, not to mention ed, when the glass, still remaining watch crystals and large plates of unbroken, with no signs of its givwindow-glass, are thrown about a ing way, and there being no more room in a miscellaneous manner, with greater damage to the floor than to the missiles, the inquiry, lar experiments were tried, all with gan Co., Mason & Hamlin Orgin Co., and great success. Glass dishes were the wilson Sewing Machine Co. unbreakable? becomes one of interest.

by Prof. Egleston, of the School of Professor assured his audience that Bastie, during the past two months, he wa not yet prepared to state all glass. The discovery, or it might be called the invention, of M. de la Bastie, was only made last autumn, but for the last ten years he has devoted his time and attention to the matter, having during that time tried over 2,000 different baths, the obtained by plunging ordinaryglass, when at a great heat, in to a bathcomposed mainly of fatty substances. The "peculiar properties" are toughness to an almost incredible degree, and non-conduction of heat to an absolute degree. Further than the heating and bething in fatty sub stance (the composition of which bath is of course a secret) there apand yet its whole molecular construction is different. When br ken, as it can of course be by sufficient force, it rivals the traditional inches square furnishing several although thrown vigorously ten by itself, with smooth edges so fect was owing entirely to the periments yesterday were conducted in the presence of a large number of spectators.

EXPERIMENTS WITH THE GLASS.

As a preliminary, the Professor threw a few pieces of red giass, of considerable thickness, about the room, which only excited a smile from the many glass dealers present; next saucers and various other glass dishes of more fragile dimensions bounded unbroken from the hard floor, the smiles perceptibly dwindled; and when in handsful, watch crystals and long thin pieces of glass fell on the floor and remained whole, a round of applause broke from all present The next experiment consisted of testing the strength of ordinary and this patent glass beneath a steel weight, cartridge-shape and tempered, dropping from different heights. Best English plate glass broke beneath a two-ounce ball falling 15 inches, while the La Bastie glass of an equal thickness was only broken by the same ball falling 4 feet 8 inches. Ordinary plate glass was broken by a fourounce ball dropped from a height of DEPOT. - The Missouri Pacific one foot, while the tempered glass resisted the blows of the weight until it had been raised to 3 feet 9 from Kansas City into the new inches. A one-pound weight re- Union Depot at St. Louis, conquired to be raised 3 feet to break a necting there with the out-going piece of this wonderful glass tof trains of all lines to the North, an inch thick. To demonstrate the advantage of using this substance East and South. in roofs of hothouses, a plate was ticketed through St. Louis, over placed in a slanting position and a the Missouri Pacific Through two-ounce ball allowed to fall upon Line avoid a tedious omnibus it perpendicularly, as hailstones strike upon slanting roofs, and it was not until the ball fell from a height of 9 feet and had struck the same equipped with fine reclining chair spot thirty six times that it was broken, while common glass of twice the thickness was demolishconsisted in allowing a strip of the glass 3 inches wide and 3-16 of an inch thick to project from weights upon the projecting end. | all about it.

Experiments in New York with In this position it supported PREMIUM CHESTER WHITE thick, was bridged upon two uprights, and weights suspended from weights on hand, the experiment had to be abandoned. Many simiheated and cooled without injury, and one plate was exhibited which A I this and much more was done Professor Egleston said had remained upon the range in his house, Mines, yesterday, at Cooper Insti- subject to every change of temperatute, with the La Bastie glass. Be- ture, for over a week. The Profesfore beginning his experiments the sor also vouched for having heated a large plate of the material in the although he had been engaged in centre of 2,000° and still held it experimenting on the substance, at comfortably by the edges in his the request of Messrs. Paturle and bare hands. A photograph taken De la Chapelle, agents for M. de la upon a piece of the glass was likewise exhibited, and the immense hair from falling out. value of the article to photographthe properties of the wonderful ers in enabling them to preserve their negatives was shown. Speci- it a healthy and luxurious gr wth. stained and engraved, so that there appears nothing for which ordinary glass is used that cannot be improved and benefitted by this discovery. A diamond will not cut peculiar properties of his glass being it, but means for doing so are thought to be of easy discovery. The process of manufacturing the article is also said to be within the scope of any ordinary workman, while the cost is said to be but five per cent. additional in its manufacture.-N. Y. World, June 8.

The process which removes the brittleness of ordinary glass conpears no difference in its manufac. sists in immersing it at red heat well to call and examine our CLOTH and ture from that of ordinary glass, in a bath of fatty substances, which the inventor keeps secret, and in slowly cooling the glass therein. The lecturer threw three pieces of prepared colored glass on "one-horse shay" in the totalness the floor, as well as some watch of its destruction, a piece three crystals, neither of which broke, hundred fragments, each fragment twelve feet. Various glass plates paradoxically being an entire piece similarly projected remained ertire; but the Professor showed the that one might safely thrust his only way of breaking them, by hand into a barrel of this broken spinning one fourteen feet high in glass and withdraw it uninj red. the air, and allowing it to impinge The glass exhibited yesterday was horizontally and with its whole hardly as smooth and clear as might surface, when it shivered into thou be necessary for some purposes, but sands of pieces. In the experi-Prof. Egleston stated that this de- ments recited by the lecturer it required thirty six shocks of a pointcrude means at present provided ed steel cylinder falling from ten for the process, and not to any to twelve feet high on the same fault in the process itself. The ex- point of a prepared glass two ounce ballto break it. On prepared glass placed at angles in hothouses the falling cylinders had no effect.

> In resistance to direct pressure the prepared glass far surpasses the best ordinary, strips of the latter on knife edges bearing at the utmost a weight of twenty seven pounds, while narrower strips of the new did not break under sixty pounds SECRETS weight, but often required much higher pressure. With ordinary supports a half inch tempered glass three inches long broke only at 210 pounds. The resistance of the new material to fire is remarkable. A plate on which a heat of 3,000 degrees was brought to hear only began to bulge after 31 minutes of such intense heat, while ordinary glass broke within five seconds. Its applicability to optical purposes has as yet not been fully tested, but although extremely elastic, La Bastie's glass is so hard that it resi-ts the diamond.-N. Y. Sun,

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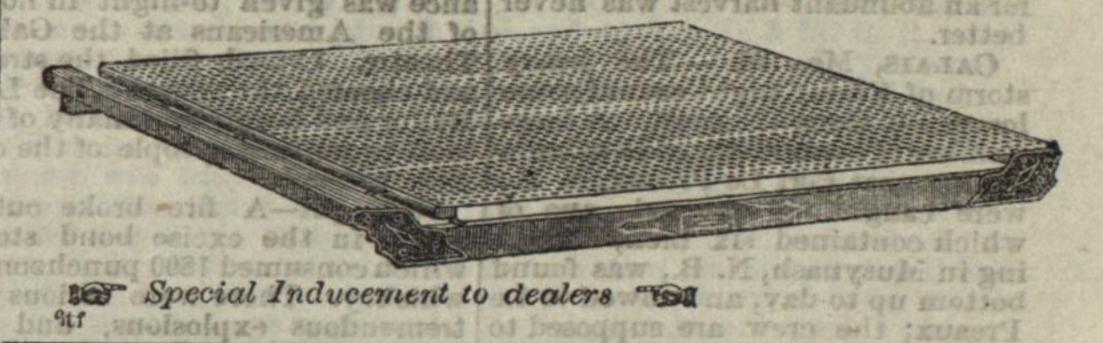
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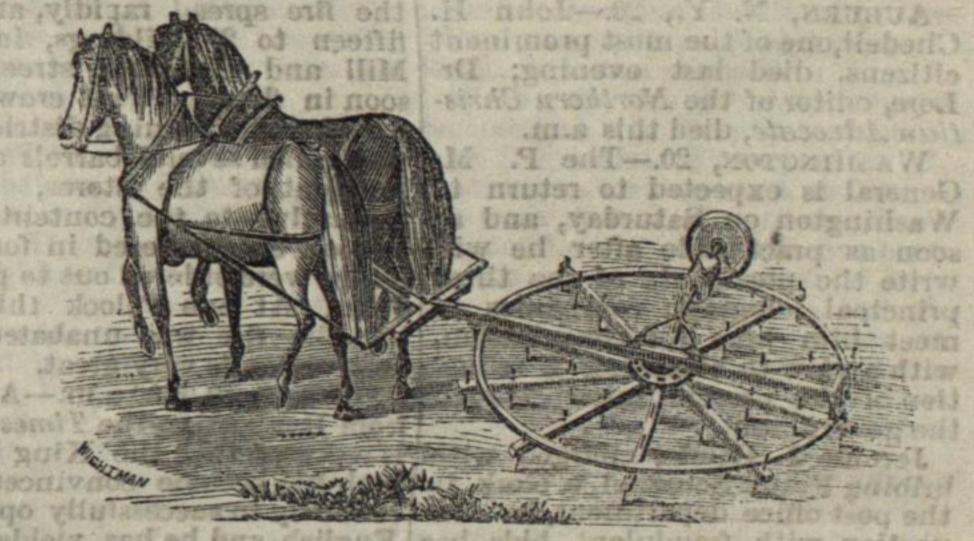
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