### THE VICTORY OF THE S. A. WOODS MACHINE CO. AT THE NEW OR-LEANS EXPOSITION.

It is generally acknowledged by persons connected with wood working business, who had the pleasure of visiting the New Orleans exposition, that what was called the wood working machinery annox contained the most varied and complete display of wood working machinery ever seen on the continent; and as the United States is far shead of any other countries in the manufacture of this particular class of machinery greatest the world has ever seen.

of an award over so many well known competi-

There was also, at the opening of the exposi-

Co. A public street, which the exposition management found it impossible to close, passed directly through the machinery annex and out off a large amount of space which would otherwise have formed a part of the S. A. Woods Machine Co.'s exhibit. This was a very discouraging state of affairs, but the company, although occupying such an unfortunate position for the display of their machines, made the best of their situation, and by cutting out a partition which seperated their exhibit from the main exposition building, and by a good arrangement it may be confidently stated that the exposition of their machines, overcame to a certain extent exhibit of wood working machines was the the disadvantages of their position, which were so great that at one time the company seriously As almost all the prominent manufacturors contemplated retiring their exhibit altogether of wood working machinery in the United States from the exposition. Their confidence in the had their machines entered for competition, the excellence of their machines convinced keenest anxiety was felt as to its results, and them, however, that with any sort of a fair no trouble or expense was spared by the com showing before an intelligent committee of petitors to make as good a display of their judges they were bound to win; and the sequel machinery as possible, not only from its advan- proved that this confidence was well founded, tage as an advertisement to the wood workers as before an examining committee composed of who visited the exposition from all parts of the some of the most intelligent machinery experts country, but from the much more important to be found in this country, and after a thorough new heavy pattern flooring machine, an illusaduantage which would result from the securing examination and comparison with other mach tration of which we present with this article, apply the cement hot, let it cool and dry under ines of like nature, they obtained the highest medal for superior excellence for each different high speed and fast feed, to meet the require two ounces, dissolve in one pound of bisulphile tion, a struggle to secure the most Jesuable machine exhibited by them. Eight different ments of mills doing a large amount of business, of carbon. This is a good coment, but if 'cpt positions for a favorable display, and in this machines were exhibited for competition by the and at the same time producing the very best thickens very soon. In order to prevent this espect the concern which was most disadvant- S. A. Woods Machine Co., Boston, New York work. It embodies many new features, and add a solution of pure rupber, resin and tur

Moulding Machine, Double Endless Surfacer, Jointing Machine, Circular Saw Machine, Planing machine for matching two boards at a time, Panel Planer, and Shop Surfacer, and eight golu medals of the first-class for superior excellence were received by them over all competitors, thus placing their machines, on a fair verdict from a committee of evperts, at the head of the wood-working machinery manufacture of the world.

This award is well deserved, for there is no concern in the country which pays closer attention to the manufacture of its machines. or maintains a position nearer to the front in the matter of improvements. The verdict of the judges of award at the New Orleans capas ition is one which had already been made by the most intelligent wood working firms in the United States and other countries, as evidenced by the large orders for their machines which the A. Woods Machine Co. have received during the exposition and since its close.

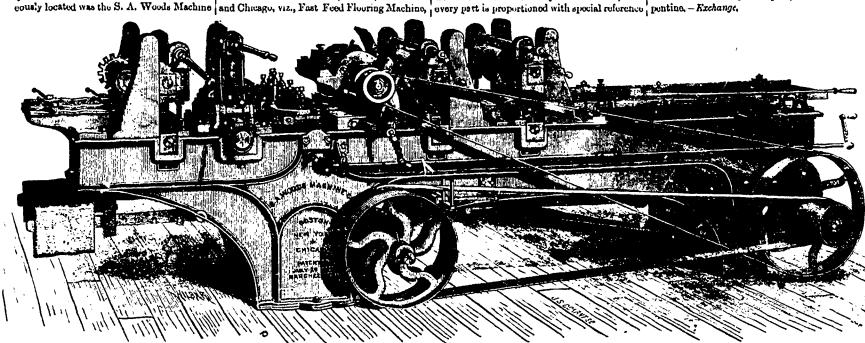
One of the most important and widely used machines in the exhibit referred to above, is the This machine has been designed by the S. A. award winch could be secured-namely, a gold Woods Machine Co, with special reference to

One of the to convenience and durability. special features of this machine is the feed rolls, which are heavily weighted and provided with expansion goars, and are so mounted with expansion gears upon both ends of the shafts that an equal pressure is obtained upon both edges of the board, causing it always to "hug the guide" and feed through straight.

The method of suspending and weighting the teed rolls is entirely new, and the machine ossesses many valuable and novel features which cannot fail to make it popular with practical wood workers.

#### Leather Belt Cement.

An ordinary coment for this purpose is wheat flour boiled in oil of turpentine, but the ends must be secured by rivets, or it is not reliable. A better coment is made by seaking six ounces best glue in one pint of ale, then boil, add one and a half ounces of boiled linseed oil and stir well. Another prescription is to take dissolved glue in the n as the cabinetmakers use it, and add tank cacid till creamy and ropy, Make the leather surfaces to be united rough, pressure, and it will not need riveting. For rubber belting take pure rubber in thin slices,



## WOODS HEAVY PATTERN FLOORING MACHINE.

#### GRINDING WOOD.

flour by the millstones, as the grain of the wood much power to keep the mill in motion. The and employed and employed in reducing and act as a break to keep the grained from that employed in reducing and act as a break to keep the grained from the condition of the worst cases of reputive. Sond two lotter stamps for pamplet and references. World's Dispensary Medical Massociation, Buffalo, N. 1

cutting of the knives would be injurious to the water, and its rough surface scrapes and grinds bark removed by a gang of workmen who are planed off very rapidly on a revolving side the trees are ready to feed endwise through a wheel pares of the bark longthwise of the bolt hollow auger that is turning about as rapidly as while it is being slowly turned about on a table a buzz saw. This hollow paring machine con- by the workmen, when they are ready for the tains a number of knives that plane off in its splitting machine. This machine is nothing circular path the fine shavings for the grinding more than a blunt wedge which is driven up machine similar to that of a lead pencil sharpen and down by a crank motion. The bolts are er in bringing a conical point on a percel. This placed beneath this stamping wedge that cracks operation reduces the fibres of the tree into them in halves in an instant, and the knots lengths no longer than the thickness of a split out, if any are to be found, and the bolt shaving, and soon reduces a log of wood into reduced into pieces sufficient for the grinding miles of ribbon that can easily be broken into machine. This is the machine that requires so

Out among the Adirondacks the soft woods annuate fibres as some of them would be severed the fibres crosswise with the grain and mashes of that region are being ground into a fine in the operation. In the mountainous districts pulp flour for mechanical purposes, which can attend for their water power, where wood can be of that region are being ground into a fine in the operation. In the mountainous districts pulp flour for mechanical purposes, which can not only be used in a manufacture of paper, ground on large revolving stones without the card-board and oil-cloth, but can be thrown in aid of steam in any form, and where the cost of wood are placed in a rectangular box, so arranged that the grinding surface forms the bottom of it. The cover or follower is forced down by a feed screw, having a friction nut to guard against an over pressure on the stone nutritious matter. How far the fibre of the side channel and raised out of the water by an fine grains of spruce has found its way into the ondless chain that carries each length of wood. fine grains of spruce has found its way into the endless chain that carries each length of wood into pulp. The pulp being mixed with actions to decide. For the purpose of are then taken to a large circular saw and cut water in grinding is easily conducted in pipes down and trimmed of their branches, and the bolts one foot in length. The bark is then the stream to the next water privilege, where it meets with a chemical process, and piled up for use. They wood into pulp. The pulp being mixed with water in grinding is easily conducted in pipes down and trimmed of their branches, and the bolts one foot in length. The bark is then consisting of boths in superfected steem and consisting of baths in superheated steam and bark removed by a gang of workmen who are phaned on very supposed a large alkali, under high pressure, in coners that irree familiar with the use of the draw knives, when cutter, the long knives on the face of a large alkali, under high pressure, in coners that irree familiar with the use of the draw knives, when cutter, the long knives on the face of a large alkali, under high pressure, in coners that irree impurities that find their way into the mass as well as into the lumber when the trees were grown. From this process, with the assistance of a few white rags, it is made available for the The bolts are finest took and writing a perfinest book and writing paper. In the paper found as much wood pulp in use as that from rag, and the uses of the former is very rapidly developing - Exchange.

# WOOD STAINS IN A DRY FORM

Andes (Erfindungen und Erfahrungen) gives the conowing formulæ for some wood stains, which may be put up in a dry form, and when wanted for use may be readily dissolved in

OAR WOOD,-Five kilos, of Cassel brown, 0.5 kilo. of potash, and 10 kilos. of rain water, boiled together for an hour, the whole strained through a linen cloth, and the clear, darkcolored liquid boiled to a syrupy consistency.

WALNUT WOOD.-A decoction of Cassel brown, 3 kilos.; potash, 0.5 kilo.; and water, 7 kilos.; the whole scained through linen, and during evaporation to syrup, 2.5 kilos. of extract of logwood added.

MAHOUANY, -A decoction of extract of Brazil wood, 3 kilos.; potash, 0.25 kilo.; and water, 3 kilos.; to which, before e sporating to syrup, 150 grs. of cosmo are added.

EBONY .- Five kilos, of extract of logwood boiled with 11 kilos, of water, and when near the syrupy state, 300 grs. of iron nitrate added; evaporated to syrup under constant stir ring.

All the above stains are brought into a dry condition by running the respective syrups into trays of sheet iron, with low rims, in which the syrup hardens, and it afterwards broken up and ground.—Exchange.

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