
[Reported Officially for the Scientifc American.]
List of patent claims Hssued from the United states Patent office por the wees ending january 3, 1854.


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## Recent Foreign Inventions.

Tansing-Stephen Garrett, of Surrey, Eng. patentee. The skins or hides are secured on rame, which is made to be raised and lowere in the tan vats. This mechanical action is kep
up until the hides or skins are fully tanned.
Boots and Shoes-J. Jaques Jamin, of Lon don, patentee. The improvement is on clogs hoes with wooden soles. The improvement consists in making grooves along the edge of he sole, and securing the upper leather in the said grooves. This kind of shoes is not used in America, but is very common in England cogs; thes are very warm for the feet, the wood being a good non-conductor. In our severe winters, especially when the roads are so lippery under foot, it would be very difficult to walk with them, because the soles are no elastic. Were it not for this defect, we would recommend their use.
Making $^{\text {Manure-E. T. Simpson, of W ake }}$ field, York, Eng. This method of making manure, consists in taking woolen rags, shoddy, and other waste products of wool, and dis solving them with an acid, such as nitric, expoed to artificial heat, and then combining the fuid so obtained with bones, coprolites, or ani mal charcoal.
Roasting Coffè, \&c.-George Berry, of London, patentee. This inventor places his coffee beans, or cocoa, \&c., for roasting, in a vessel, from which he extracts all the air, and during the roasting process he also draws of all the steam by an air pump. By this method the beans, 8 c .
Treating Flax-C. J. Pownall, of Addison Road, Middlesex, Eng., patentee. This inven tor takes flax, while wet and swollen, by steep ing and fermentation, and subjects it to the ac tion of water falling from a hight of 6 feet and upwards, for the purpose of more effectually wash

Grates and Stoves-J. L. Stevens, of Lonon, patentee. The improvement consists in he admission of currents of hot air behind the ack plates of the stove or grate, above or bout the level of the fire, such currents of air being made to pass through channels formed underneath or at the sides of the fire, and party heated thereby and partly by the back plate of the stove or grate. The object of this inrention is to improve the combustion of the fuel, and to reduce the quantity of smoke givn off, either by the use of wood or bituminous oal. Those who think there are no improvements to be made on our stoves, are greatly mistaken. Indefinite complexity more than imple utility, prevails in all our stoves.
Extracting Juice from Sugar Cane-J. T. Manitold, C. S. Lowndes, and J. Jordan, of Liverpool, patentees. The patent obtained is imply for reducing the cane into very minute pieces, then subjecting these pieces to the action of steam in close vessels, and after this pressing out the juice in a hydrostatic press. The sugar cane is reduced to tine pieces, like dye-wood chips, by a series of circular saws This is certainly, so far as we are aware, a very novel mode of treating sugar cane. The reduced canes, when steamed, can be placed in bags and easily subjected to hydrostatic pressure, but what effect the steaming may bave upon the sugar (its quality) so obtained, we are unable to say. The subject is at least worthy the attention of our sugar planters

Steam Boilers-C. Cowper, Kensington, Middlesex, Eng., patentee. The boiler is made of an assemblage of tapering cells connected by pipes with valves so arranged that in the bursting of a cell it can be immediately shut off rom the rest of the boiler by closing the valve by hand, or by the pressure of the steam.
Net Method of Obtaining Motive Pow-er-E. J. Shollick, of Iverstone, Eng., patentee. This new invention consists in obtaining powerful electric currents from a magneto-elecric machine, and applying those currents to decompose water into its elementary gases-hydrogen and oxjgen-then admitting them into a cylinder beh'nd a piston, passing an electric spark through them and thus exploding them -regolving them into water again, and thus give motion to the piston, which is to work like that of a steam engine, and move machinery in the same manner. This inventor is stated to be an Esquire; this may be, but he is not acquainted with the laws of physics. Leaving out friction in the working parts of this machine -he can obtain no more power by the exploion of the gases of water than the power ex pended to resolve the water into its elementary
gases; this is the law in physics, and no combination of machinery can alter it.
Printing Culors on Textile Fabrics-F. A. Gatty, of Accrington, Lancaster, Eng., patentee. Milk of lime is about $1 \cdot 10$ specific gravity, is saturated with a stream of chlorine gas, whereby a solution containing chloride of calcum is obtained; 600 lbs . of alum are then dissolved in 200 gallons of water, and to this 100 gallons of the above chloride mixture is added, forming thereby chlorate and hydrochlorate of alumina in solution, and the sulphate of lime as a precipitate. The latter is separated by filtration or decantation. This solution is employed as an improved mordant, and is used in the ordinary manner in the preparation of colors. This may be a useful mordant for bark greens-as a substitute for aluminuus pyroligneous acid; also in place of the common red iquor, and it may be a good mordant for madder colors, in place of the common mordant, which is made by mixing a solution of soda or e acetate of lead with alum.
Improtement in Looms for Weaving.Robert Boyd, of Paisley, Scotland, patentee. This improvement consists in having an airtight cylinder (in which there is a piston) by he compression and exhaustion of which the suttle is moved across the raceway of the lathe.

Le Verrier, the astronomer, in a paper which he recently read before the Paris Academy of ciences, suggests that we may expect the dis-

