lengthwise on the card. It represents the interior of a drawing room, a paneled wall, chimney piece, etc., forming the background. Two of the figures are seated at a grand piano, playing a duett, while a third one turns over the music; a fourth, standing near, leaning on the chimney-piece, apparently listens to the music; a fifth sits with an embroidery frame on her lap, engaged at work; another sits before a writing desk, or Davenport, writing a letter; while another stands by with a letter in her hand, apparently in conversation with the last. The scene is simple and domestic ; a family group at home. The grouping is admirably managed, the photo graphy exquisitely perfect and delicate, at once excellent in definition, light and shade and pictorial effect.

Another new style is a full-length carte-de-visite portrait of a gentleman, front view, and on the back of the card is pasted the portrait of the same person, in the same position but taken from his back, and this being refiected in a little piece of looking-glass placed in front of the back picture, you see the whole of the gentleman at one glance, both front and back view.

## NEW INVENTIONS.

The following are some of the most prominent of the patents issued this week, with the names of the patentees :-
Stovepipe Drum.-C. C. Webber, Calmar, Iowa.-In this stove drum are a series of flues to thrice convey the product of com bustion from end toend. In connection with the central flue is drum; by adjusting this a direct passage out of the top of the formed with thestovepipes, or by lowering itthe circuit can be established.
Clothes-washing Machine.-Philip Van Busbum, Hender son, Ky.-This invention consists in a novel construction and arrangement of the concave and the manner of applying the pressure thereto, whereby it is believed that a very simple and
efficient washing machine is obtained.
Hollow Auaer.- J. H. Siith, Pineville, Pa.-This invention consists of a frame or stJck provided with an adjustable center rod, two adjustable jaws, operated by a right and left screw, and cutter.
Cultivator.-Isa ac avery, Ottawa, Ill.-This invention col sistsin an improved draught attachment, whereby the device power, operated or drawn along by a moderate application of power, the plows moved either vertically or laterally, and the

Stench Trap.-Francis H. Williams, Syracuse, N. Y.-This nvention consists in a sink, the interior of which is provided with an inclined apron extending over the edge of a tray in combina tion with a valve which closes the communication between the sewer and the tray in such a manner that water or other liquid poured down through tlee sink will fill the tray and then by forcing the valve open run down to the sewer, but as soon as the sup ply of water stops the valve closes down on its seat, and the water contained in the tray, together with the valves, prevent the escap
of stench from the sewer through the sink. of stench from the sewer through the sink.
This inventor has also secured another invention for a similar purpose, which consists in the arrangement of a siphon tube with a floating valve, in combination with the sink or waste pipes leading from the sink or sinks in a building and with a suitable pipe leading to the sewer in such a manner that by the liquid re maining in the lowest part of the siphon, and by the valve, the communication from the sewer back to the sink is firmly closed and the escape of stench from thesewer into the house or building is prevented, andat the same time the communication from the ink or waste pipes to the sewer is uninterrupted.
Ste fepipe Damper.-B. F. Cowan, New York City.-Thisdamp. er is a hollow spheroid and revolves within an enlargement of he same shape made in the pipe where itisused. The fattened are parallel with each other, and are also open. The damper is suspended from points which are mid way from its flattened sides, and its place of suspension in the pipe is likewise midway of the fattened sides of its enlargement, so that when their flattened sides coincide with each other, an opening is formed through the pipe and through the damper from side to side, and communica tion between the lower part of the pipe and the upper part is interrupted.
Trunk.-Luther Jackson, Newark, N. J.-This invention consistsin the arrangement of spring stops on the ends of theinside cover or tray in such a manner that when the tray is opened it is neously, to the great annoyance of the person packing or unpack ing the body of the trunk.
Musical Attachbent to Cageb.-G. Gunther, New York Clty.-This invention consists in the application of a music box extending in the interior oftre caitable detaching a ever the bird jumps or steps upon the rod or stop lever the music box begins to play when wound un and an agreenble surprise to : the persons in the room is effected.
Machine for Fluting Wabhboards.-Calvin J. Weld West Wardsboro', Vt.-The object of this invention is to provide mechanical means for quting washboards, and it consists in a
novel construction of devices for feeding the boards to the cutnovel construction of devicesfor feeding the boards to the cut the boards from interfering with the knives; in the holders that
keep the boards in proper position while their flutes are being the flutes of the boards.
Caster Bottles.-Burroughs Beach, West Meriden, Conn.This invention consists in arranging within the bottle and ex
tending in the direction of its length, a center shaft or spindle tending in the direction of its length, a center shaft or spindle having a series of radiating arms, in such a manner that withou opening the bottle, it can be rotated therein, and thus by mean of its several armsthoroughly pulverize the salt or other article init, so that it can be freely discharged through its perforated
cap. cap.
Arti
Artificial Ha nds.-J. F. Maguire, East Boston, Mass.-This invention consists in a novel manner of hanging the fingers and
thumb to the hand, whereby they can be made to firmly grasp and hold articles of various shapes and sizes, and the fingers can be operated independent of the thumb
Oil Wellpump.-W. E. Morrison and W. L. Bettr, Funk ille, Pa.-This invention consists in attaching to the piston rod of the pump, above its upper valve, a cup-shaped vessel, perforated upon its sides and bottom, with its open end up, the pump or well tube ; and in the pump or well tube; and in the operation of the pump, it acts tube above it, by the presence of which heretofore much tube above it, by the presence of which her
damage has been caused to the pump valves, etc.
Invalid Bed.-Henry Cardes, Bellville, N. J.-The object o this invention is to furnieh an improved bed forhospitals, for use when the invalid is too feeble to be moved, in order to preserve the bed from becoming wet or defled. It consists of a series of pipes, plane and concave plates, and a valve, combined with each ther and with a bed or mattres
Burglaralarm.-R. M. Webb, New York City.-This invention consists in so arranging upon the inside of a door, and with regard to the sey hole of the lock in it, a device connected at its inner end with any suitable alarm that when a key is inserted in the door from the outside, or any tool used in the key-hole for picking or forcing the lock, the alarm will be instantly set free and sounded.
Cutring Roller for Clothes Wringers, Etc.-J. B. for. YTB, Roxbury, Mass.-Thisinvention consists in curing a roller made of india-rubber or other vulcanizable gum on a hollow metallic core in such a manner that the heat is equally diffused throughout the entire mass of vulcanizable gum and the arttcle roduced are of superior tenacity and toughness,
Lamp Chimey and Shade.-J. H. Connelly, Wheeling, West a.-Byusing a cylindrical glass chimney with a metallic cap piece, the durability of the chimney is greatly increased and lia bility to fracture by heat avoided. The cap piece is so formed as to constitute a most convenient means of applying the im. proved lamp shade to either theimproved or common chimney
Supporter for Window Sabhes.-Burroughs Beach, West Meriden, Conn.-This invention consists in a novel manner of operating the arms of the sash supporter, of that class having two arms hung upon a common center, whereby, when so deired, they can be both so swung or turned, and in conjunction with each other, as to be entirely relieved from the sash.
Corset Springs.-Samuel h. Barnes, New York City.-This Invention consists in forming the springs of corsets of two or more thin metallic plates, placed one upon another, and so fasten together that they can move upon each other in the direction nd elasticity, as well as durability, are greatly increased.
Ha'ts and Caps.-Charles L. Rahmer, Brooklyn, N. Y.-This invention consists in a novel mode of securing the sweat lining within a hat or cap, for the purpose of allowing its interior to be ventilated when worn, while at the same time, the edge of th lining so secured, and which comes in contact with the head will readily adjust itself thereto, without being in the least de gree iftexible.

## THE MARKETS.

The exports of specie from the port of New York since January st amount to $\$ 49,363,138$. For the week ending July 18, $\$ 2,239,270$ Gold has fluctuated considerably. On Monday, the 15th, it was a $1481 / 4$ per cent., but next day it was 150 and above. The rate of interest was
5 per cent.
ASHES-Pots are quite dull, but with continued light receipts
rices are supported ; the sales are a few small lots at $\$ 825 @ \$ 8$ rices are supported
$71 / 2$ Pear or sure un
hear of business.
 on and phadadpbia.
CEMENT-Is in steady demand at $\$ 175$ cash
COFFEE-Laguayra, 17c.; Java, 21/2c. gold, 32c.@33c. currenc COPPER-Detroit, 33c.; Portage Lake, 323/2. .
COTTON-Fair demand. Ordinary, 25c.@26c.; middling, 32\%/2c.@
 MEAL-Rye, $\$ 6$ 75@\$740; corn, $\$ 475$ @ $\$ 510$. GRAIN-Corn, 82c.@83c. medium Western; 831/2c.@841/2c. extra Oats, 50 c .@51c.




Bar frod
LATH
months.








 WOOL-State and Western fleeces, 50 c .@60c. ; pulled, $57 / 2 \mathrm{c}$. ZINC- $91 / 2$ c.less 4 per cent. for gold.

## 5tatix

J. U. R., of Pa.-The largest monitor is the Dictator. J. W. C., of IIl.-Persons who preserve fruit and vegetables, acknowledge that green peas are very difficult to keep. We have seen specimens of what were called "fne," but they did notstrike us as a success. Perhaps some of our readers will tell us the best way.
W. J. W., of Ill.-We published a recipe scarcely a month ago to prevent dampness on brick walls.
J. J. W., of N. B.-Siphons of so great a length as yours are apt to cause trouble by air collecting in the highes part. It is a question whether it will supply the boilers seven in number and 36 feet long. The way to find out is to measur the boiler evaporation for a given time. We cannot tell without more facts.
M. P., of Mass.-Many engines are now run $\mathrm{b}_{y}$
G. S. B., of Mo.-You have made a confusion in terms. The common eolian harp is acted upon by the air, but an eolian attachment to a piano is another thing, and is made to imitate the peculiar tone of the wind instrument.
F. E. H., of -- If you will look in the back numbers of the Scientific American, you will find a good deal upon the time to cut timber. That cut in the months of August, September, and October, is found to be the hardest, heaviest, and most durable, by actual experiment
C. J. H., of N. Y.-We have examined your valve and its arrangement. Will not the steam leak through about the diaphragm as much as it would by unequal expansion of the valves? This trouble is very much overrated.
N. C., of Wis.-Any respectable hardware firm will sell you genuine emery.
A. D., of Ind.-We have used plain collodion to give an insulating coating to copper wire, with good results. Gun cotton and the dried collodion fllm are among the best
R. J., of N. J.-An ordinary jackknife seems generally to be the most handy instrument for removing the
tin-foil caps from buttles. This so-called tin foil is lead foil tin-foil caps from buttles. This so-called tin foil is lead foil with a very thin skin of tin, and costs only about 30 or 40 cent per lb

IMPORTANT DECISION IN INTERFERENCE CASE
before the examiners-in-CHief on appeal S. H. Hodges for the Board.

Interference between the application of Wait anci Phelps, and that of $A$ Witherell.





## cis

8

## 

## 

.

## rt of me mad and chan

## :

tors.
As there are reasons for supposing that this determination may
operate upon Witherell as a surprise, he evillitit o be allowed an an
opportunity to introduce testimony upon the question, and to

vershinigton, D. C, Nor. 25, B8e.

