a high degree before mixing the same with the asphalt, and in mixing these two lagredlents white they are both highly heated; 2nd. The Improvement in the process of manufacturing compressed concrete pushing blocks, which are moulded and condensed by pressure while hot, which improvement consists in callling the surface of the compressed block while it is ir, or as it comes from, the mould, by the application of water to the block.

No. 8838. Chemical Compound for the Treating of Hides. (Compose chimique pour le traitement des peaux.)

Priedrich Knapp, Brunswick, Germany, 27th May, 1878, for 5 years.

Claim.—1st. The oxide salt, basic sulphate of from prepared as (and having the physical properties) described. 2nd The process of preparing basic sulphate of from, consisting, first, adding nitric acid to the boiling solution, of sulphate, of protoxide of from and subsequently adding to true resulting solution sulphate of protoxide of from, and either allowing the salt to remain in solution or evaporating the same to dryness

No. 8839. Improvements in Churns. (Perfectionnements dans les barattes)

Beauchamp Cokley and James F. Shedden, Mooers, N. Y., U. S., 27th May, 1978, for 5 years.

Claim — The combination with a central vertical spindle carrying blades and rotated in one direction, of a frame also carrying blades attached to a sleeve, mounted on the spindle and revolving in the contrary direction.

No. 8840. Improvements on Washing Machines. (Perfectionnements aux machines à laver.)

William F. Wilkins and James T. Sawyer, Montreal, Que., 27th May, 1878, for 5 years

Claim.—1st. The spiral springs or rubbing surface i, drum or cylinder c spiedle b and journals c, having slots o, in combination with the box or toba, 2nd. The spiral springs or rubbing surface i, drum or cylinder rounds i, in combination with the box or tub a having slots m, one on either

No. 8841. Polisher and Cleaner for Pealed Barley. (Polisseur et nettoyeur pour l'orge mundec.)

Frédéric Latalippe, St. Michel, Que., 27th May, 1878, for 5 years.

Résumé — lo. Une nouvelle crosse mobile I pour le nettoyage des treillis, et à combinaison des roues à engrenages. Il II de 450 pour servir de vis de rappet. 20. Un nouveau pivot traisé T combiné avec l'arbre P et pertoré telque décrat, 30. La forme du treitlis N dont les broches sont posées obli quement au lieu d'êire perpendiculaires.

No. 8842. Improvements in Corsets.

(Perfectionnements dans les corsets.) Joseph Goulliand, Montreal, Que., 27th May, 1878, for 5 years.

Résumé — lo Un corset de jono tassé au mêtier ordinaire pour n'importe quelle matière textile comme chaine; 20. Comme trames dans des brins de jone b et bi, ou rotin, panie d linhe, de Panama ou autre patite ou herbes mannes, ou autre sandegues, minces, plates et flexibles, referdues ou non colonées ou non, argentées ou dorées, et coupées en inseau pour les gous sets lib et B₂,30. Réums ensemble par la simple contexture de la chaîne a ou séparés entre cux par an, deux ou plusieurs fils de contre-trame c de a'importe quelle autre dantée textile.

No. 8843. Improvement in Breast Collars.

(Perfectionnement dans les bricoles de harnais.)

Lewis Cibbs and William Gibbs, Canton, Ohio, U.S., 27th May, 1878, for 5 SIBSY

Cheim -1st A breast collar frame A A, having the draft arms B bent isward at M, to form bearings for pads O O and attachments for traces, and with the front portion bent downward at M, from the plane of the arms B B; 2nd A breast collar frame made in two pieces, adjustable by means of a binged joint at its lower end at C and F F; drd. The upright draft pads O O, in combination with the collar frame A A; 4th. The draft pads O O provided with concave sockets Q, in combination with ball N on screw pin or bear P

No. 8844. Process for Manufacturing Artificial Stone. (Procédé de fabrication de la pierre factice.)

John A. Murray, Yarmouth, N.S., 27th May, 1878, for 5 years.

Claim.—1st. An artificial stone composed of sand, cement and lime, and hardened and treated by the described method of subjecting 'be same to the schon of steam and carbonic acid gas; 2nd. The combination of the structure A, furnace B, vessel C and tank D, with the pipes F E.

No. 8845. Improvements on Wringers. (Perfectionnements aux essoreuses.)

Franklin F Adams, (Assignee of Melvin N. Lovell,) Erie, Pa., U. S., 27th May 1878, for 5 years.

Claim —The standards ff cast with the fixed sockets or Dearings of the upper roll, the oblong opening for the springs and movable bearings of the lower roll, and the lugs for attaching the clamps and cross bar.

No. 8846. Improvements in Protractors. (Perfectionnements dans les rapporteurs.)

Robert T. Osgood, Orland, Mc., U. S., 27th May, 1878, for 5 years.

Claim—1st The vertical centre point H securel to the gauge B and extending downward through the semi-circular opening of the rotating disc E. 2nd. The horizontal gauge plate C the spring D. in combination with the rotary disc E and base A; 3rd. The square base A with its graduated sides by tenths and inches and with its discs opening through the centre.

No. 8847. Improvements on Hose Couplings.

(Perfectionnements aux manchons des boyanx.)

Frederick Stewart and Oscar F. Soudder, St. Louis, Mo., U.S., 27th May, 1878, for 5 years.

Claim. 1st. The combination with the interior topering sleeve of the male or female coupling, of the split and inpering screw-hend and outer tapering screw-sleeve, for clamping the base end; 2nd. The combination of the inner sleeve A of the female coupling, with an interposed collar screwed on the end of the sleeve and the female coupling II turning on the shoulder of the collar; 3rd. The sleeve A having a series of offsets or shoulders, for coefficient the hose end. shoulders a, for receiving the hose end.

No. 8848. Improvements on Ships' Windlass. (Perfectionnements aux guindeaux.)

Daniel C Peppard, Great Village, N. S., 27th May, 187, for 5 years. Claim.—The combination of the wooden drum A having the end caps L, and the chain wheel D locking therewith by the keys M.

No. 8849. Improvements on Mechanical Musical Instruments. (Perfectionnements aux instruments de musique mécaniques.)

Oliver H. Arno, Somerville, and John E. Turner, Cambridge, Mass., U S. 31st May, 187c, for 5 years.

31st May, 187c, for 5 years.

Claim.—1st. The combination of a sound producing plate B, or its equivalent, a hammer head C a spring lever stein a, having a butt piece c and a bar F, with a strip of paper or other sheet material adapted to pass between the said bar and butt piece; 2nd. The rail H, having the attached spring G, in combination with the butt piece c, having a spring hammer C and a tail piece d, against the upper side of which the free end of the spring bears, whereby said spring in its reaction throws the hammer against the sounding plate, 3rd. The stem a, butt piece c, lunge b and tail piece d, when made in one piece of wire.

No. 8850. Machine for Cutting Hoops.

(Machine à tailler les cercles.)

John B. Dougherty, Rochester, N. Y., U. S., 31st May, 1878, for 5 years.

John B Dougherty, Rochester, N.Y., U.S., 31st May, 1878, for 5 years.

Claim—1st. The method of cutting hoops from a log, by means of two cutting knives acting at right angles to each other one of them severing the side of the hoop and the other its thin edge from the solid log: 2nd. A hoop cut radially from a log so that the radial lines of the cut shall give to the hoop the necessary level required to fit the taper of barrels, casks, or other articles of coopers ware, 3rd, the vertically and tongunatinally moving kinfe carrier and its guides, in condition with the parallel bars, their supports, the connecting rod d and crank shaft F., 4th. The horizontally moving kinfe carrier and kaife and its supports and guides, in combination with the universal jointed connection and crank shaft F., for the purpose of entring it is narrow edge of the hoop from the log., 5th. The vertically moving kinfe its carrier, the connecting rod d and shaft F. for the purpose of entring it is narrow edge of the boop from the log., 5th. The vertically moving kinfe its carrier, the connecting rod d and shaft F. provided with spur year a, in combination with the soup from the log, 6th. The spring pressed and fluted feed roller S. resting and acting upon the periphery of the log in solid deal on the edge of a hoop from the log, 6th. The spring pressed and fluted feed roller S. resting and acting upon the periphery of the log in combination with its operating mechanism. 7th. The crank shaft F. can P. litting bar Q and rack shaft R, in commandon with the toothed bar T, and ratched 1, for the purpose of rotating the feed roller. Sth. The toothed inclines M in combination with the purpose of rotating the feed roller. Sth. The toothed inclines M in combination with the purpose of friending a rotates. 3th. The central support to the log, 10th. The shifted swinging supports R: in combination with the acts of the carrying shee Y. in combination with the purpose of fairing the log to be cut, and a central log support; leading means of truing the Claim -1st The method of cutting hoops from a log, by means of two

No. 8851. Improvements in Sash-holders. (Perfectionnements aux arrête-croisées.)

William H. Mead and Edwin J. Davis. (Assignees of Enos Mead.) Galway, N. Y., U.S., 31st May, 1878, for 5 years.

Claim .- The combination of the excentric b and tlexible spring or friction

No. 8852. Improvements on Mills for Grinding Middlings. (Perfectionnements aux moulins a moudre les gruaux.)

Jonathan Mills, Milwaukee Wis., U S., 31st May, 1878, for 5 years.

Jonathan Mills, Milwaukee Wis., U.S., 31st May, 1878, for 5 years.

Claim—1st A mill for grinding middings with stones of naraculitie or onchita stone from 6 to 8 inches in diameter, and constructed to run at a very high velocity. 2nd The spindle yoke D, constructed to hold the spindle firnily, take up the cud shake therein and permit the vertical movement of the yoke and spindle together, thereby raising and lowering the stone without slipping the spindle in its bearings; 3rd. In combination with the yoke D, the differential screw F, 4th. In combination with fixed upper millstone M, the hopper X, tightly fastened to the plate fixed to the upper stoness of as to exclude the air from entrance at the eye of the stone; 5th. A millstone dress so as to do all the grinding or granulation at the skirt of the stone, with from 1½ to 2 inches of the skirt of the stone, the centre of the stone being bosomed cut so as to admit the free passage of the material to be ground; 6th The curb, composed of the two segments I and 2 fastened together with the ring 3, or other suitable means so as to be readily removed to permit access to the stone without taking the mill apar. 7th. The combination of the differential screw F, yoke D, spindle L and lower stone N1; 8th. The combination of yoke D, provided with hub c₁, notched as shown, with spring catch d: 9th. The process of manufacturing flour from middlings, by first