zmprovell Rotary Steam Encine
Whilitam Crar, New Yor's ctity. - Thls invention has fur its object to fur

 cyllinder is secured a cylindrical drum ofsuch a size as to revolve in the satd
cyllinder, a apace betng left upon the opposite sides of the drum for the steam. In the opposite sldes of the drum are formed decp longitudina
grooves to recelve the valve, grooves to recelve the valve, upon the inner part of the end edges of inner surfuces of the headn, which arc so formed as to hold the ous of the platons out close against the inner surface of the cyllinder. Two inwith sllde valves. Sald valives may move tchether, bcilng connected by yoke with whicn is connected one end or a lever, which ts plvoted to
bracket at tached to the cyllider head. The Inner end of the lever project af int which it fa held by a apring. By this wheel attached to the sha recelved upon the opposite sides of the cyllinder, so as to balance the en sine ana prevent alde presaure

## Improved Doll Joint.

Joel A. H.Ellis, Sp Ing Company, of same place.- Thy invention relates to the manufacture joints or the le gsand arms ; and it consists in the manner of forming the joInts and securing the requifite friction thereto. A slot and tenon are
fastened together by the plrot plin. The tenon is divided oy a saw serf. The double tinn is designed to ft the slot a mitle full, and be sprung together allghtly, when the tenon enters the slot, thus producing the
requile e frictlon, and preventing any onding or looseness oy the cut or alit at right angles, and aited into a round socket having a groove to rective a pln, so that the arm will be securely held, whille it will freely plect. is compressed, ay represented, which secures at thls polnt the re quired degree of friction.
manner alre ad $y$ describci.
Improved Mail Bag.
Thomas J. Hardaway, Macon, Ga.-Tuis Iavention ts an improvement in the class of mall bags provided at the mouth with hinged bars or plates
adapted to be locked together. Four bars are hinged together so as to torm a rictangular and nearly square opening, and a locklng plece fa attached to
one of the bars near the jolnt. The sald picca may be conventently ued a a handle for opentng and closiag the bag. When adjusted for locking it covers the contiguous and middle joint of the hingid bars, and thus impart a strength aud rigldity high's necessary to oecurtity of the contents of the
bag. The plece ts also adapted by its position to recelve a label relating to bag. The plece Is also adapted by its po
contents, deatinatlon, etc., of the bag.

Improved Detachable Boot and Shoe Tip.
Michael R. Hanley, Providence, R. I.-The object of this invention ts to in process of manufacture, but to those already completed or in use ; and it consists in a tip having lips or teeth turned inward from fte lower edge and hook ping at each end.

DECISIONS OF THE COURTS.
United States Circuit Courto-southern District of New York.

beft to nave a earre made at the Patent O
the coot of an application for a matent

## Preliminary Examination.

In order to have such search, mase ouc a written description of the inventon, it your own worde, and a pencli, or pen and ink, isetch. Send these
with the fee of $\$ 5$, by mall, addrees ?d to MUNN \& Co., 77 Park Row, and in due time you will recelve an acknowledgment thereof, followed by a writ ten report in regard to the patentability of your improvement. This apecial search to made with great care, among the models an I patents at Washing
ton, to ascertain whether the improvement presented is patentable.

## Rejected Cases.

Rejected cases, ordefective papers, remodeled for partles who have made applications for themselves, or through
Address Monn \& Co.., stating particulars.

## To Make an Application for a Patent.

The applicant : or a patent ahould furntah a model of his invention if ansvention be a chemical production, he must furilsh samples of the ingredt ents of which his composition consists. These should be securely packed the inventor's name marked cn them, and sent by express, prepald. Smal
models, from a distance, can often be sent cieaper by mall. The sase madels, folt a the order of Muns \& Co. Persons who live in remote parts of the country can uaually purchase drafts from their werchants on their New York correspondents.

Caveats.
Persons desiring to fle a caveat can have the papers prepared in the short ment fee for a caveat ts \$10. A pamphlet ot advice regarding application for patents and cavcatals furnished gratis, on application oy mall. Address MUN \& Co., 57 Part Row, New York.
Relssues.
A retsane is granted to the original patentee, his helra, or the asignees of the entirc interest, when, by reason of an insufticlent or defective specinca
tion, the original patent li invalld, provided the error has arisen from Inad
vertence, aceldent, or mitatake, without any fraudulent ur deceptive inten tion.
A patentee may, at his option, have in his relsauea separate patent for each distinct part of the invention comprehended in his original application bypaying the required fee in each case, and complyigg with the other re-
quirements of the law, as in original applicallons. Aditess Muns \& Co., 37 Paik Row, torfult parttculars.

## Design Patents.

Forelgn designers and manufacturers, who send goods to this countr mas secure patents here upon theirnew patterns, and thus prevent other Prom fabricating or selling the same goods in this mari.et.
A patent for a design may be granted to any person, whether citizen or (ilen, for any new and originaldesign for a manufacture. bust, statue, alto en, allk, cotton, or other fabrice; any new and original impresilon, orna. ment, pattern, prist, or pleture, to be printed, painted, cast, or otherwise plared on or worked into any article of manufacture.
 Forsign Patents.
The population of Oreat Britain is $31,000,000$; of France, $37,000,000$ : Del
 Nuwis the time, while business is dull at homi., to take advantoge of these Immense forelgn fields. Mechanical Improvenents of all zinds are ulways In demand in Europe. There will never be a bettur time than the prescit to take patents abroad. We have rellable busincss connectlons with the
princlpal capitals of Europe. A large share of all the patents secured in forcign countries by Americans arc obtalned thronfh our Agency. Address MUNN \& CO., 37 Park Row, New York. Chiculare with full information on forelgn patents, furnighed free.

## Value of Extended Patents.

Did patentees realize the fact that their inven tions are likely to be more productive of proft during the seven years of "xteuston than the frst full gelves of the extenalon privilege. Patents grated prior to 1861 mas be astended for seven years, for the beneft of the fiventor, or of his heirsin case of the decease of the former, by due applicatl on to tbe Patent Oftre, ninet days before the termiaation of the pitest. The extended time finures to the beneft of the invintor, the aseigilees nider the first torm having no
 be obtained to conduct the business befcre the Patent offco. Full informa

Trademarks.
Anyperson or farm domiciled in the United States, or any firm or corpora tion residing in any forelga country where similar privileges are extended tection. This is very important to manufacturers in this countrs and equal if so to forelgners. For full partlculars address Munn \& Co., 87 Park Row New York.

## Canadian Patents.

On the first of september, 18t2, the new patent law of Canada went inio force, and patents are now granted to clizens of the United Statea on the same favorable terms as to citlizens of the Dominion.
In order to apply for a patent in Canda, the applicant must furnish a applying for an American patent.
The patent may be taken out elther fc: five years (government fee \$20) or forten years (government fee 840) or for Afteon years (government fee 860) The five and ten year patents may bo extended to the term of afteen yeara The formailties for extenston are slmple and not experisive. patented in Canadaprovided the A.merican patent fan not more than one yea old.
All persons who desire to talkn out patents in Casada are requested to
communicate with MUNN \& Co., 97 Park Row, N. Y., who will glve promp communicate with MONN \& Co., 97 Park Row, N. Y.,
attentlon to the bustiness and furalsh full instruction.

Copies of Palents.
Persona desiring any patent isaued from 1836 to November 26,1867 , can he uppited with offctal coples at a reasonalie cost, the price depenc"ug upo

Ampert ofte ting to this offee gi.
A copy of the claims of any patent tasued stnce 1836 will be furntshed
for 81 . for \$1.
When
When ordering coples, please to remit for the same as above, and atate name of patentee, ittee of invention, ant date of pate
$\&$ Co.. Patent Sollctiors, 37 Park Row, New York cltv.
MUNN \& Co. will be happy to seeinventoryin person, at their offce, or to advise them by letter. Ia all cases, they way expect an honest opinion. For
such consultations, opinions and advice, no charge is madc. Write platily such consuitations, opinions and advice, no charge is maic. Write plainly
do not nee pencll, nur pale fnk: be brief. do not nee pencll, nor pale ink: be brief

## and strictly confdental.

In all matters pertaining to patents, auch as conducting interferences, procaring extensions, drawing aselgnm.nts, examinations into the valldity of patents, etc., spectalcare and attention is given. For info:mation, an $\underset{\text { Addreas }}{\text { or pamphlets of instrind }}$

## MITINN \& CO., pUBLISHERS SCIWN, IFIC AMERICAN,



