break down (in specified cases) the exclusive monopoly enjoyed by patentees. The proposed law provides :

"1. That all associations or combinations, either of natural persons or incorporated companies, formed for the purpose of purchasing a patent or patents for any process of reducing iron ore to steel or iron, with the intention of withholding the use thereof from the public or from individuals or associations desiring to use the same, are hereby declared perfect his invention. Under a license system the inventor's to be unlawful, and any purchase or attempted purchase of rivals would share all the advantages of his success without any such patented process by any such association or com- having shared any of the preliminary risks and expendibination for the purpose or with the intention of preventing tures. the use of the same, shall be construed to be an abandonment to the public at large of all exclusive rights under any such patent.

"2. That where any person, association, or incorporated company shall own, or claim to own, any patented process, ing and peculiar as the so-called marsupials or pouched ani- the wolf became an object of dread, as poultry and domestic for reducing iron ore to steel or iron, such owner or claimant is hereby required to issue license to use such patent process to any person, association, or corporation who may desire to use the same in the manufacture of iron or steel. bats, and "ursine devils," we are more or less familiar, Said license shall be granted upon such terms as may be just through the mediumship of zoological gardens, traveling flesh of that useful and easily mastered animal to that of any and reasonable, to be agreed upon, if practicable, with the menageries, and the writings of accredited travelers; but kangaroo, however venison-like, or bandicoot, howsoever owners thereof. If a satisfactory agreement cannot be made, the Tasmanian or zebra wolf is almost unknown, and so far savory. the person or association desiring to use said patented pro. 1 as the writer has been able to discover has been exhibited in cess as above set forth, is thereby authorized to apply to any captivity only in a single instance. Two specimens were ob-Circuit Court or District Court of the United States where tained by the Royal Zoological Gardens of London, England, the owner of said patent or any of them resides, or may be but quickly died, pining away through confinement, and, perserved with process, to have the value of such license ascer- haps, disease brought on by a two months' seavoyage and tained by commissioners to be appointed by said court or by change in climate. empaneling a jury, as either party may elect, to ascertain the value thereof. Such proceedings shall, as near as prac- given rise to the title marsupial (from marsupium, a pouch), ticable, conform to the proceedings for the appropriation of is the peculiar sac provided the females for the protection private property for public use as are prescribed by the laws of their immature young. This is developed in a greater or of the State wherein the proceedings hereby authorized shall less degree in each species, but may easily be studied in our take place.

been ascertained, as herein provided, the court in which for a Christmas dinner, peculiarly his own. Mind you, I do such proceedings are conducted shall enter a decree or judg- 'not decry its edible qualities, but would merely suggest its ment setting forth the same, and shall direct the manner in being far more interesting under the dissecting knife than at which payment for said license shall be made, and shall the festal board. Examination reveals the pouch'to be supmake such further order in the proceedings as shall duly ported by two elongated bones that project, or are rather protect the rights of all the parties thereto. As soon as the prolonged, from the crest of the hip, and which lie just be- nocturnal in habits, rarely venturing out during the day, party applying for said license shall comply with the orders neath the skin and in the same general plane with the back; but hiding in the recesses of the rocks among which it of the court, he shall be entitled to use said patent process in accordance with said judgment or decree.

"3. Jurisdiction to conduct the foregoing proceedings is hereby conferred upon all circuit and district courts of the United States.'

This is a new phase of an old scheme, and, as usual, one palpable, though comparatively small, wrong is made a pre- common deer, being scarcely larger than newlyborn rats; and text for legislative action calculated to introduce or open the they are blind, naked, and even incapable of voluntary move- bited in captivity. First, they are exceedingly sly and wary, door for vastly greater wrongs.

willfully prevent the development of a new and useful inven- her pouch, meantime held open for its reception by her fore- her young, four at a litter, remaining with them and supplied tion. Grant that the proposed law would tend to prevent paws, and placed upon the breast, to which it at once clings with food by her spouse until they are able to care for such delays. Has Congress the right to prevent such wrongs in the manner prescribed? Would it be good policy to able size and capable of voluntary exertion-a matter of fight with incredible fury, and yield only when torn in remedy the evil in that way, the right being clear ?

While Congress is constitutionally authorized to shorten or lengthen the lifetime of patents for invention, or to abolish much a part of its parent as during the period of gestation. tured animal. the patent system entirely, the Constitution gives it no author. It would seem to be incapable of again letting go its hold, as ity to provide for the issuing of letters patent for other than the muscles of the mouth at once contract so strongly about would seem never to have been known on the continent of the exclusive right to make, vend, and use the thing or pro- the bulbous portion of the nipple that even in death separacess parented. If Congress can make void one class of tion is effected only with some difficulty. legally-issued patents for the specified reason, why not all patents that may he withheld from use? If Congress can tary movement. This is so much the case that it has not the waged so fiercely, that the wolves have been driven from compel one class of patentees to issue licenses, why not all power to draw the nourishment from the maternal fount, or patentees ? By what authority is Congress to enact a special even swallow when once its mouth is filled; consequently, the confined to the wildest and most inaccessible regions of the law, a law applicable only to makers of iron and steel ?

arises from the narrowness of their view. Their selfishness, milk directly into the little one's stomach, and at this time, is too short-sighted to be wise.

It is obviously a misfortune to have a useful invention withheld for seventeen years; but the misfortune would he that it is joined to and forms at once a part of the nostrils vastly greater if the invention were to be absolutely sup- themselves, thus allowing breathing and feeding to go on pressed, kept secret by the inventor to die with him; and simultaneously. When able to feed itself, this prolongation greater still if inventors were debarred or discouraged, as they is gradually absorbed. As the youngster now approaches would be under such a law, from trying to make "new and bis more perfect form, his eyes are loosened from their bands useful inventions.'

of the nation. It is unquestionably desirable that all novel his mouth is under control, and he can release himself and ideas shall be immediately worked out as factors of indus- | feed at will; and in the spirit of curiosity frequently puts his trial progress; but the country can better afford to wait a head out from the sheltering pannier to survey the surround-

withheld from use are out of comparison with those which and crawling in habits, the zebra wolf nevertheless manages would certainly result from an invasion of the patentee's exclusive control of his invention during the lifetime of his patent. The proposed law would at once destroy a large part of the incentive to invention which the patent laws now hold out, and at the same time a large part of the patentee's

THE ZEBRA WOLF. BY DR. G. A. STOCKWELL

Of all the mammalia, none possess so much that is interestmals; and excepting the opossums, strange to say, this class of the Papuan group. With kangaroos, petauristes, wom-

The peculiar modification of the nutrient organs that has common or Virginian opossum, whose chief place in the "When the value of such license thus applied for shall have world seems to be to provide Sambo or Cuffy the material and within this pouch are concealed the breasts or mammæ.

When the young marsupial is first ushered into the world it is a tiny and helpless being, of such minute size as to be out of all proportion to its parent; even the young of the bush kangaroo, an animal nearly or quite as large as our to its many names of zebra, hyena, and tiger wolf. ment. As quickly as born the youngling is seized by the and are hidden in dens most difficult of access, where day-Grant that it is an injury to the community to delay or lips of the mother and at once conveyed to the interior of light seldom penetrates, and where the female brings forth instinctively, not again releasing its hold until of consider-themselves. Second, when brought to bay by dogs, they demands little attention, and to all intents and purposes is as scarce any reward is sufficient to purchase the life of a cap-

mother is provided with a supernumerary musclethat, passing Humboldt Mountains and Hampshire Hills. The trouble with those who desire legislation of this sort over the glands, compresses them at her will, forcing the too, Nature has wisely provided to prevent strangulation by elongating the larynx or windpipe to the nasal cavity, so and the tender skin is covered with a coat of hair, and he Seventeen years is but a little time compared with the life begins to act more like the offspring of other animals. Now

to kill the kangaroo in defiance of its boasted leaping powers and powerful claws of its hind feet, and to secure the ornithorynchus, or common duck bill, in spite of its subterranean burrows and natatory habits. It does not even hesitate to seize upon and devour the prickly echidna, a much more inducement to spend the money necessary to develop and formidable mouthful than any porcupine; and even prowls the sea shore searching for food among the heterogeneous masses flung up by the waves, renewed or added to by each succeeding tide. Shore crabs, which dot the beach in numbers after every flood, are caught with no little dexterity, and mussels and limpets are readily detached from the rocks, while the carcass of a seal or fish, or the body of a wild fowl, no matter how oily or fishy, serves as a tidbit. As quickly, bowever, had civilized man taken up his abode in Tasmania, animals were never safe from its attacks. The sheep esis confined exclusively to Australia, Tasmania, and the isles pecially became the objects of the settler's anxious care, for no sooner were they introduced than a most unmistakable appetite was developed for mutton, seemingly preferring the

> In size this wolf approaches a large setter or Newfound-| land dog, averaging perhaps a little more than five feet in length from snout to tip of tail, the latter appendage claiming a little more than one-third of the measurement; but specimens are sometimes killed that exceed this by half a yard; at the shoulders it is some twenty or twenty-two inches in height. The feet are protected on their bottoms by rough pads, and the toes, of which there are five on the fore feet and but four on the hinder ones, are all armed with short, straight, powerful claws. The head is very like that of a dog, the muzzle being long, narrow, and pointed, with a white, grizzled upper lip, sparsely sprinkled with a few black hairs, a few of which also ornament the cheeks and ridges above the eyes. The ears are sharp, pointed, erect, very broad at their base, and covered with hair both without and within; while the eyes are sharp, full, and black, and protected with a false or nictitating membrane like the owl, to shut out the unwelcome light of the sun, for it is chiefly dwells. Of a general grayish-brown hue, mixed with yellow, banded above with a series of black stripes, which beginning at the shoulder diversifies the whole back to the tail, gradually increasing in length on the haunches and prolonged on to the thighs, it is this marking which gives rise

There are several reasons why the animal is seldom exhiweeks, sometimes months. Once so placed, the little one pieces. Again, the hatred of the settlers is so intense, that

Formerly they were quite prevalent in Tasmania; they Australia, but by degrees the guns, traps, and poisoned baits of the settlers have prevailed, stimulated perhaps by 1 have said that the wee marsupial is incapable of volunt the bounties offered; and the war of extermination has the haunts that once knew them, the few survivors being

----Preservation of Butter.

Dr. W. Hagemann has observed that cow butter contains 0.5 to 0.6 per cent of milk sugar, which under the influence of bacteria is transformed into lactic acid, and this liberates from the glycerides the acid, containing less carbon. It is obvious from this that summer butter becomes rancid more rapidly and strongly than winter butter, and that for the preservation of butter two methods may be adopted, viz., either the lower fat acids are removed by soda solution, as proposed by Adolf Mayer and Dr. Clausnitzer, or else the milk-sugar must be removed, or its decomposition prevented by sup. pressing the vegetation of the bacteria.-Ohem. Ztg.

few years for their development than to hurry them by ing world; and finally ventures therefrom in search of more means calculated to hazard their very existence.

The patent system is designed not for the rewarding of though still retaining the pouch as refuge when fatigued or inventors, but for the advancement of the useful arts and shelter when threatened with danger. With some animals sciences. That advancement is to be secured primarily by it is no uncommon affair to find young of different ages octhe immediate registration and publication of novel ideas to cupying the pouch at the same time-some almost ready to flower spikes are fairly visible. A large handful of soot, or serve immediately or remotely for the instruction and guid be emancipated, the others weak and imperfect creatures ance of all workers in arts to which the new ideas are help- of recent birth.

ful; secondarily, by giving the patentee a temporary control It is strange that all the mammals of Australasia are marsuof his invention, to incite him to make greater efforts and pials, from the pygmy pitaroo and the haunting phalangers quarter of a pound of fresh cow-dung mixed in a large garto justify larger expenditures to hasten the practical de-up to the giant kangaroo. To the same class belongs the velopment of his invention. If the latter incentive fails, zebra or Tasmanian wolf, an animal farthemostformidable, and the invention remains unimproved for the full term of as it certainly is the most savage of indigenous quadrupeds. the patent, the public is still the gainer. The disadvantages | Too feeble and cowardly to successfully attack man, it is, affords. attending the occasional willful holding of a patented inven-nevertheless a terrible pest, committing serious ravages tion in abeyance are vastly more than overhalanced by the among all other creatures, irrespective of form or habits of advantages which flow from the prompt admission of new life, the wombat alone excepted. No matter how hungry he ideas into the world of creative thought; and ultimately the may be, he will not touch this fat and sluggish marsupublic enjoys the full and free use of the invention specified. pial, though, as it subsists on fruit alone, it would seem to Further, the disadvantages chargeable to patents temporarily be most edible. By no means swift or agile, and sneaking and was kept up to the motion of the earth by clockwork.

Treatment of Bulbs.

An ounce of nitrate of soda dissolved in four gallons of water is said to be a quick and good stimulant for bulbs to be applied twice a week after the pots are filled with roots and the about a pint, tied up in a piece of old canvas and immersed in the same quantity of water for a day or two, will give you a safe and excellent stimulant; also good and safe is a den pot of water and used as required. Any of these stimulants will do good, as the whole of them applied alternately will benefit bulbs that need more sustenance than the soil

*********** Photograph of Comet's Tail and Stars.

Dr. Gill, at the Cape of Good Hope, succeeded in photographing the comet's tail and with it fifty stars that were seen through the tail. The plate was exposed 140 minutes,