Italian Inventors at work

press gave the information that the Italian territory. siege.

Before analyzing, even superficially, the most important of these, it should be noted that the work of inventors in developing their ideas is greatly facilitated by the work done by the Fascist Association of Inventors. After carefully studying the inventions, that Association undertakes all the necessary steps with the proper government offices for securing the grant of a patent and for its practical utilisation. In this way, an invention can be placed on the market in a very brief time and the rights of all concerned are fully protected.

The period through which Italy passed during the Abyssinian expedition was most favourable for encourrequirements which arose under the circumstances, the need of protecting tension, afforded inventors a power ful and fruitful stimulus. As hapde of the Napoleonic wars and during the blockade enforced against Germany during the last war, s again in Italy the contribution to progress made by inventors was manifold and valuable.

lian people had been solved by the hills of the Alps.

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Modello da Tavolo, con

incassatura simile a

Questo bellissimo

Fascist Association of Inventors and The question of textile fibres is a The production of rayon had to a the Central Commission of the Na- very important one for Italy when great extent solved the problem of tional Research Council had handed we consider that an average of 200 providing a substitute for cotton, but to the Under-Secretary of the Par- thousand tons of cotton, 50 thousand there remained the urgent and serity a pamphlet containing a descriptions of wool and 70 thousand tons of ous problem arising from our inadetion of 165 of the most important in- jute are used each year, while only quate supplies of wool, as the deficiventions offered to the country by a thousand tons of cotton and 10 ency of our home output had to be Italian inventors with special refe- thousand tons of wool, and no jute met by large imports entailing grave rence to resistence to the economic whatsoever are produced in the coun- economic drawbacks, due to the fact

> to a minimum the indispensable imports of textile fibres, measures wethe textile fibre market.

way cuttings for fixing loose soil in ven by pressure through a wirethe Appenines. Three or four kilo- drawing plate immersed in a coagulgrams of seed yield from 20 to 22 ating bath, produces a strong elastic etric tons of proom per hectare.

The most recent tests and studies slow that broom, as a national texaging inventions, as the manifold the fibre, possesses the invaluable quality of requiring for its chemical and mechanical processing little mathe country against the exodus of chinery but a large amount of unskilits gold reserves and the high ideal led labour. Large factories will not be built for the processing of broom and its by-products, but a number of pened during the continental blocka- industrial centres will be organised near the places where it grows, and these must necessarily be numerous and scattered wherever the dry and sterile nature of the soil does not lend itself to more valuable crops. Such land is found throughout the The basic food problem of the Ita- Appenines, the islands and the foot-

many initiatives that go under the Among the formidable problems to name of the "wheat campaign", but be solved is that of the supply of Italian inventors had to face the cellulose. It is estimated that, on an problem of supplying textile fibres, average, a ton of dry broom will gicarburetant substitutes, agricultural ve 450 to 500 kilograms of good parequirements, cellulose and other raw per pulp which, by simple processes, materials either lacking or only can be produced in the form of raw

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dinary machines into a very strong cardboard of great industria, value.

But to return to textile fibres, a field in which Italian inventive pow-A recent communication to the found in insufficient quantities on er has obtained brilliant results is that of procuring wool from milk. that the Anglo-Saxon market has To meet this situation, and reduce practically monopolized the world's

> re taken to improve the chemical and based on a happy marriage of agri- cessioni per la produzione e la distribiochemical processes for degumming culture with industry. Milk from buzione dell'energia nei diversi cenand retting hemp so as to enable it which the fat content, cream, is re- tri dell'Impero. to replace flax and jute; at the same moved yields casein, which precipitime broom made its appearance on tates when subjected to a very simple chemical treatment. There then This shrub grows wild in large remains of the buttermilk with which quantities in the arid regions of Ita- we started the serum or whey which ly and is largely used by the railway is an excellent feed for pigs. The companies, together with robinia, for casein, treated separately, is convertstrengthening the banks of the rail- ed into a glutinous paste which, drisoft fibre of any length required.

> > It is estimated that by next year the factory at Cesano Maderno will have a potential output of 20 tons of synthetic wool per day, and this gives an idea of the great contribution an inventor has made to the solution of one of the most serious economic problems.

As regards petrol substitutes, a whole series of initiatives and proposals show that the solution of this problem cannot be far off; indeed, results already obtained are in some cases quite astonishing. Although facts clearly show that the solution of carburation is being sought for chiefly by the use of alcohol which can be distilled in such large quantities from plants grown in Italy, where also there is an almost permanent over-production of wine, nevertheless combustibles which produce gas are also of great importance.

It would seem that sanctions have shown that standard eleven thousand calory petrol is really not essential for running motors. The gasolene engines now burn straw, olive pits shavings, chestnut husks, seaweed and agricultural waste products of all kinds. It seems almost impossible that such diverse and poor materials should be a source of such pure and abundant power. But engineers, who know that one calory only, the smallest quantity of heat practically me. asurable, equals 327 kilograms of power, are not surprised at the fact.

Moreover, besides gasogenous proother petrol substitutes such as cal- vital national problems. sation of hydrated ethyl alcohol have known. made such progress that the use of his substitute alone or mixed with petrol or benzole is now quite safe.

We may also note that our inventors have made such progress with the polymerism of acetylene that the production of synthetic benzole now seems very near.

In agriculture, Italian inventors have given remarkable proof of skill and geniality: machines for improvng stony soil, for sowing and spreading fertilizer, for tilling land economically and for utilising waste naterial. A machine that cuts and softens straw for fodder; another that makes a straw substitute where straw is lacking; pasteurising machines and apparatus for making flour from bananas and all kinds of

It is especially in the field of mechanics that inventive efforts are being made and it is hoped that in the near future a large number of engines, injectors, pumps and accessories of all kinds will be manufactured on Italian patents. An engine run by the heat of solar rays has been designed; and a candle with a quartz insulator will at last free Italy from the need of making expensive imports of kaolin and insulating porcelain.

In the field of scientific instruments, calculating, statistical and cyphering machines, etc., and machines for testing building material we also find many important patents. Lastly, innumerable inventions have been made connected with building materials, hoisting machines, and all sorts of equipment and accessories.

These efforts made during the last few months reflect only a part

cellulose, or, can be converted by or- TECNICI IN ETIOPIA PER AC-CERTARE LE POSSIBILITA' IDRO-ELETTRICHE

Roma,5.

L'Agenzia "Le Colonie" informa he la Compagnia Nazionale Imprese Elettriche recentemente costituitasi a Milano sotto la presidenza dell'on. Motta, per lo studio e l'attuazione totalitaria del problema idro-elettrico dell'A. O. I. e che - come é noto raggruppa in sé tutte le imprese elettriche italiane, comprese quelle municipali, é stata autorizzata ad inviare in A. O. I. i propri tecnici per l'accertamento in quei territori ed ventualmente concretare con il Go-The production of synthetic wool is verno Generale le modalita' delle con-

Sanskrit Story of the Creation of Woman

to the creation of woman, he found che i giornalisti di tutto il mondo that he had exhausted his materials hanno potuto constatare i fatti da lui in the making of man and that no solid elements were left. In this dilemma after profound meditation he did as follows:

He took the rotundity of the moon, the twinkling of the stars, the curves of creepers, the clinging of tendrils, the trembling of grass, the slenderness of the reed. the bloom of flowers, the lightness of leaves, the tapering of the elephant's trunk, the glances of deer, the clustering of rows of bees, the joyous gayety of sunbeams, the weeping of clouds, the fickleness of wind, the timidity of the hair, the vanity of the peacock, the softness of the parrot's bosom, the hardness of adamant, the sweetness of honey, the cruelty of the tiger, the warm glow of the fire, the coldness of snow, the chattering of jays, the cooing of kokila, the hypocrisy of the crane. the fidelity of the chakravaka, and compounding all these together, he made woman and gave her to man.

In two weeks the man came crying: "O Mighty Master of Mysteries! Thou who hast made all the wonders of the world, take again the woman that thou gavest me; she teases, tantalizes and tires me; and I cannot live with her any more."

But in two weeks the man came again crying, "Give me back the woman that thou madest; I cannot | 37 live without her."

ducts, devices, tests, studies and of the contribution Italian inventors wonderful trials are being made with have made towards the solution of

cium carbide, compressed methan For the present, all work done in gas, hydrogen and ammonia. There the field of armaments and new and are also many very promising kinds improved implements of warfare of alcoholic combustibles, and the placed at the service of the land, sea devices for the production and utili and air forces have not been made

ALLA CAMERA FRANCESE VOTI PEL RICONOSCIMENTO DELL'IMPERO ITALIANO D'ETIOPIA

Parigi, 5. Continuando il dibattito sulla politica estera la Camera ha ascoltato 12 Elm St. stamane il deputato De Kerillis, il quale ha riconosciuto che una certa collaborazione militare con la Russia é necessaria; ma, d'altro lato ha vivacemente criticato l'intervento russo in Spagna. La Francia, continua l'oratore, dovrebbe temere tanto una Spagna nazionale quanto una Spagna bolscevica.

Dopo che la Francia ha armato il Governo di Madrid, Germania e Italia hanno preso lo spunto da questo fatto per occupare presso il generale Franco il posto riservato alla Francia. L'oratore afferma che dalla Francia sono partiti non meno di 12.000 volontari per ingrossare le file dei marxisti spagnoli.

A questo punto il ministro degli Esteri, Delbos, ha fatto rilevare all'oratore che egli parlava di fronte al mondo intero, e che perció le sue parole avrebbero dovuto essere piu' prudenti....

De Kerillis ha replicato che le sue In the beginning when God came non sono rivelazione segrete, dato denunciati. L'oratore vuole poi far rilevare quale pericolo rappresenti per la Francia le Germania nazista.

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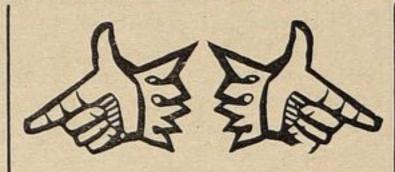




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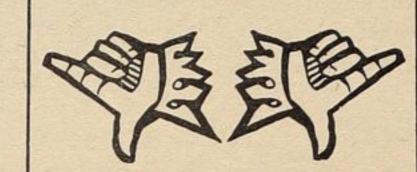
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